BICHARD H. BREMER
PRESIDENT
CHIEF EXECUTIVE OFFICER

TEL. 318 - 222 - 21 41 FAX 318 - 222 - 8637

July 13, 1994

Mr. E. Michael Williams
Vice President, Fossil Generation
CENTRAL AND SOUTH WEST SERVICES, INC.
P. O. Box 660164
Dallas, Texas 75266-0164

RE: AGENCY APPOINTMENT

Dear Mr. Williams:

The Delaware General Corporation Law and Article VII, Section 2 of the Bylaws of Southwestern Electric Power Company (SWEPCO or the Company) authorize the President of the Company to appoint agents to act on behalf of SWEPCO. Pursuant to this authority, I am hereby appointing and empowering E. Michael Williams, Vice President, Fossil Generation, Central and South West Services, Inc. (CSWS), or any duly appointed successor in office (Fossil Generation Agent) as an agent of SWEPCO with authority and responsibility for acting on SWEPCO's behalf in all matters related to engineering and consulting services, operation, maintenance, construction and projects for Fossil Generation and why of 2 2000 incidental thereto (collectively "Fossil Generation Management").

In such capacity, the Fossil Generation Agent is authorized and empowered, in the name and on behalf of the Company, vacting with readmits alone, to execute such contracts, agreements and other instruments are relating to Fossil Generation Management, to institute prosecute, defend or settle any action, suit, arbitration and other form of dispute resolution, litigation or other proceeding related to Fossil Generation Management before any court, administrative agency or other forum and to retain counsel/ expert witnesses and consultants and to execute or file any pleadings or other instruments in connection therewith, and to take such other action with respect to Fossil Generation Management as Fossil Generation Agent shall deem necessary and in the best interest of the Company, and is further authorized and empowered to delegate any or all of Fossil Generation Agent's foregoing responsibility and

authority to the person designated by Fossil Generation Agent as Director, ERCOT Region, of CSWS, the person designated by Fossil Generation Agent as Director, Support Services, of CSWS and/or the person designated by Fossil Generation Agent as Director, SPP Region, of CSWS.

Such agency shall become effective on <u>July 12, 1994</u> and shall continue as set forth herein until modified, suspended or terminated by action of the President or Board of Directors of SWEPCO.

Please acknowledge your receipt and acceptance of this letter of appointment by signing and returning the enclosed copy. This letter will then be forwarded to the Treasurer of SWEPCO for filing among the Company's records.

Very truly yours,

Richard H. Bremer President and CEO of

SOUTHWESTERN ELECTRIC POWER COMPANY

edent H. Breine

Received and accepted this /3 day of ______, 1994.

RECEIVEL

MAY 0 2 2000

WAS LEVELED FERMITAPPLICATIONS TEAM

E. Michael Williams

Vice President, Fossil Generation CENTRAL AND SOUTH WEST SERVICES, Inc.

SIGNATURE PAGE

FACILITY OPERATOR:
(THIS ONLY APPLIES IF THE OPERATOR IS REQUIRED TO APPLY AS CO-PERMITTEE)

[I,		
(Typed or Printed Name)	·	(Title)
certify under penalty of law that this under my direction or supervision in according qualified personnel properly gathered and on my inquiry of the person or person directly responsible for gathering the ithe best of my knowledge and belief, trare significant penalties for submitting of fine and imprisonment for known viol	ordance with a system desided evaluated the informations who manage the system information, the information and completed false information, included	igned to assure that ion submitted. Based , or those persons ion submitted is, to ie. I am aware there
Signature:	Date:	
NOTE: ALL APPLICATIONS MUST BEAR THE SI		
this	day of	
My commission expires on the		day
of	_ ,	en Co En IV En I
		MAY 02 2000
(Seal)	Notary Pu	APPLICATIONS TEAM
	County, 1	

All Applicants Should Complete the Following Items

raress for	receiving Self-Reporting/DMR forms:
	Provide the address to be used for receiving self-reporting/DMR forms from the TNRCC. The address given in item 1 of the application will be used if a different address is not provided in the space.
	Welsh Power Plant
	Rt. 4, Box 221
	FM 1735 - Storeroom 65
	Pittsburg, TX 75686
	Attn: Mike Clifton
	01011
ermit Numb	er:01811
	receiving Annual Billing Invoices:
	receiving Annual Billing Invoices: Provide the address to be used for receiving invoices of Annual Water Quality Assessment and Wastewater Treatment fees assessed, September 1. The address given in item 1 of the application will be used it a
	receiving Annual Billing Invoices: Provide the address to be used for receiving invoices of Annual Water Quality Assessment and Wastewater Treatment fees assessed, September 1. The address given in item 1 of the application will be used it a different address is not provided in the space. Central and South West Service, Inc. MAY 02
	receiving Annual Billing Invoices: Provide the address to be used for receiving invoices of Annual Water Quality Assessment and Wastewater Treatment fees assessed, September 1. The address given in item 1 of the application will be used it a different address is not provided in the space. MAY 102
	receiving Annual Billing Invoices: Provide the address to be used for receiving invoices of Annual Water Quality Assessment and Wastewater Treatment fees assessed, September 1. The address given in item 1 of the application will be used in a different address is not provided in the space. Central and South West Service, Inc. MAY 0.2 1616 Woodall Rodgers Freeway WASTEWATER APPLICATION

TECHNICAL REPORT

FOR INDUSTRIAL WASTEWATER DISCHARGE PERMITS

(Revised December 1998)

The following information (Items 1-16) must be provided as a minimum to support an industrial wastewater permit application. All attachments (Attachments A-J) need to be reviewed and completed as directed. Do not refer to supplemental reports in lieu of filling out these minimum requirements. If an item does not apply to your facility write N/A to indicate that you have considered it. Please do not include information concerning storm water discharges which are authorized and regulated by an EPA promulgated general permit.

LTEM	DILITIMU CHELLET TOTAL CONTRACTOR DOLLAR CONTRACTOR CON	
AMENI	DMENT APPLICATIONS.	
1.	Are you requesting an amendment of an existing permit?	
	YES X NO	
	If YES, discuss the scope of any permit changes being requested. Explain why the permit amendment is needed and provide supplemental information or additional data that will support the request.	
	See Attachment T	
	RECEIVE	
-	MAY 0 2 2000	
	WAS I EVERY CLASSICATIONS TEAT	7"." V
	2 IS ONLY REQUIRED FOR EXISTING PERMITTED FACILITIES SUBMITTING NAL APPLICATIONS. N/A	
2.	Are you requesting any minor changes to the permit which include correcting typographical errors, changing the construction schedule for a new source discharger, and/or removing a point source outfall? (Please note that changes such as reductions in monitoring frequencies, removal of effluent limitations, addition of wastestreams, etc., are not considered minor changes.)	
	YES NO	
	If YES, list and discuss the requested changes.	ĺ

ITEMS 3-16 ARE REQUIRED FOR ALL (NEW, AMENDMENT, AND RENEWAL)

3.	FACILITY/SITE	INFORMATION
	/	THE OWNER TOWN.

a. Describe the type of facility and industrial or commercial activity at the plant. Provide a detailed description of the processes at the facility which generate wastewater. Your description should include information such as any modifications to your process water/storm water handling facilities, the start-up or shutdown of any process or treatment units, any wastewater recycle projects, or any changes in production throughput.

See Attachment P

b. Describe the general nature of your business and list any Standard Industrial Classification codes that apply.

Steam Electric Power Generation

SIC Code(s) 4911 ,,	
Provide a list of raw materials	
Provide a list of raw materials, major intermediates, and products handled	

at your facility. Provide corresponding Chemical Abstracts Systems (CAS)

numbers. Be spec manufacturing) fac could impact efflu	ific and avoid trade names. dilities, provide a list of chemi ent quality. (Attach additional	Abstracts Systems For commercial cals used on-site pages if necessari	(CAS) (non-which
RAW MATERIALS Coal	INTERMEDIATES	PRODUCTS	

Steam Water

Air

DUCTSY 0 2 2000 Electricity FOR TEASY

- //

d.	Business operates	24	hours/đay	7	_days/week _	12	months/	year.
	Will the discharge	/dispo	sal be seas	onal?	YES	X	NO.	
	If YES, please exp	lain.						
		N/A						

e. List any physical, chemical, and/or biological treatment processes that you use for the treatment of wastewater at your facility. This list should be specific and include each unit in the treatment process and dimensions (e.g. dissolved air floatation, chemical precipitation, equalization, pH control, aeration, steam stripping, clarification, anaerobic lagoon). Please specify the associated outfall for each treatment unit and which wastewaters are chlorinated prior to discharge.

Treatment Units:

pH neutralization for various low volume waste streams Cyclone separator and settling basin for solids removal from bottom ash Waste streams

- f. Attach a flow schematic showing each treatment unit (including any lagoons, ponds or impoundments) and all sources of wastewater flow into the treatment plant and to each outfall. This schematic should include process wastewater, cooling water, domestic wastewater, and storm water. A water balance using cooling water, domestic wastewater, and storm must be included. (See Attachment J for average flows for each waste stream must be included. (See Attachment J for See Attachment J
- g. Attach a facility map (drawn to scale) showing: See Attachment Q
 - Production areas, maintenance areas, materials handling aleas, $0.2\ 2000$ waste disposal areas. (1)
 - The location of each unit of the wastewater treatment plant regulating TEAM the location of sumps and impoundments. (2)
 - (3) The accurate location of water supply wells and ground water monitoring wells.
 - The location of outfalls and the outline of the drainage area that (4) flows to each outfall that contains storm water.

Please provide the following information concerning each outfall for discharge 4. and each final point of effluent disposal for no-discharge operations: a) describe the location of each discharge outfall (e.g. Outfall 001; at the outlet weir of the treatment plant prior to entering the river) and the sampling location (if different); b) please complete the table to describe discharge or disposal operations; and c) provide a list of the wastestreams (e.g. process wastewater, cooling tower blowdown, once through cooling water, sanitary wastewater) to be discharged or disposed of via this permit.

OUTFALL		LATITUDE DEG MIN SEC	LONGITUDE DEG MIN SEC	<u>DES</u>	CRIPTION	OF LOC	ATION	
001	a.	33 02 54	94 50 26	_ So	uthern	end of	secondary ash pond	,
	b.	Discharge or Disposal Flow Method* hrs/d		Daily Maximus Flow MGD**	n I or <u>C***</u>	P or G****	Type of Flow Measurement Device	
		<u>D</u> 24	14	15	<u>C</u>	G	weir	
	c.	CONTRIBUTING W	ASTESTREAMS					
		Ash transport	t water. Lo	w volum	<u>waster</u>	ater, (coal pile runoff.	
OUTFALL		LATITUDE DEG MIN SEC	LONGITUDE DEG MIN SEC	DES	CRIPTION	OF LOCA	ATION	
002	a.	33 03 25	<u>94 50 14</u>				facility adjacent	
	b.	Discharge or Disposal Flow Method* hrs/d		Daily	the int I or C***	P or G****	ructure Type of Flow Measurement Device	
		D 24	0.004	0.004	_ <u> </u>	<u>P</u>	weir	EC
	c.	CONTRIBUTING W. Domestic was					MAY 0 2 20	
							WASHIGATIONS	-CAMITE 3 TEAM

Please indicate the method of wastewater discharge/disposal:

D = Discharge; I = Irrigation (Land Application);

E = Evaporation; S = Subsurface Disposal (Septic Tank/Drain Fields) Please state the flow you are requesting to have authorized by this permit application.

Please indicate whether the flow is (I) Intermittent or (C) Continuous.

Pumped or gravity flow. If pumped, indicate pump capacity (gpm).

APPLICATIONS TEAM

OUTFALL		LATITUDE LONGITUDE DEG MIN SEC DESCRIPTION OF LOCATION
003	a.	33 03 20 94 50 14 End of discharge from condensors
-	b.	Discharge Daily Daily Type of or Average Maximum Flow Disposal Flow Flow Flow I or P or Measurement Method* hrs/day MGD** MGD** C*** G**** Device
		D 24 983 1,218 C P Pump Curves
	c.	CONTRIBUTING WASTESTREAMS
		Once through cooling water
OUTFALL		LATITUDE LONGITUDE DEG MIN SEC DEG MIN SEC DESCRIPTION OF LOCATION
101	a.	33 03 20 94 50 23 Metal Cleaning pond north of facility
	ď.	Discharge Daily Daily Type of or Average Maximum Flow
		Disposal Flow Flow I or P or Measurement Method* hrs/day MGD** MGD** C*** G**** Device
		D,E N/A* N/A* I* P Estimate
	c.	CONTRIBUTING WASTESTREAMS
		Metal Cleaning waste
		*There is normally no discharge from this outfall.
OUTFALL	a.	LATITUDE LONGITUDE DEG MIN SEC DEG MIN SEC DESCRIPTION OF LOCATION
		Discharge Daily Daily Type MAY 0 2 2000 or Average Maximum Flow Disposal Flow Flow I or P or Measurement or PERMITS Method* hrs/day MGD** MGD** C*** G**** DEVIGE LICATIONS TEAM
	C	. CONTRIBUTING WASTESTREAMS

5. For each outfall regulated in your existing permit which requires you to monitor or report the flow, report the average and maximum values from the Monthly Effluent Reports for the previous 24 months regardless of the required monitoring frequency. Indicate the total number of excursions (NE) over the last 24 months.

Monitoring Start Date November 1997 Monitoring End Date October 1999

OUTFALL	AVERAGE OF DAILY AVERAGE VALUES	(MGD) MAXIMUM OF DAILY AVERAGE VALUES	NE	FLOW (MGD) MAXIMUM OF DAILY MAXIMUM VALUES	NE	NUMBER OF SAMPLES
_001	14	15	_ 0	26	0	730
002	0.004	0.004	0	0.004	0	730
003	983	1,218		1,218	0	730
101*			0		0	
*No Disch	arge during	previous 2	4 months			
						-
· .						·
			 			-

6. For each outfall that discharges storm water runoff and is to be regulated by this individual permit, provide the following information (please refer to Attachment K for guidance): N/A

a.	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	FCEINET
	**************************************			MAY 0 2 2000
				WAS LEVELLER PERMITS APPLICATIONS TEAM
	,			AFFEIG
				P^{F}_{k}

b. Describe any treatment for storm water runoff for each outfall.

	c. List the local area rainfall and your source of information.	
	Average rainfall for wettest month5 in/month (May)	
	25-year 24-hour rainfall. 9.2 inches	
	Source: National Weather Service	4
	IXAL LIMAL NEGCLIES DELVACE	
7.	Is your treatment facility located above the 100-year frequency flood level?	
	X YES NO	
	Source of information: <u>National Weather Service</u>	
	If NO, then please provide the elevation of the 100-year flood plain, the elevation of the treatment facility, and a description of what protective measures are in use or planned to prevent flooding of the treatment facility?	
8.	INDUSTRIAL SOLID WASTE MANAGEMENT:	
	a. Are hazardous wastes treated, stored, or disposed of within the wastewater treatment system at this facility?	
	YES X NO	
	If YES, list the EPA hazardous waste number(s) and the units within the wastewater treatment system used to treat, store, or dispose of hazardous wastes. Show the location of these units on the site map.	
	N/A	
		-
	b. Locate all active and inactive hazardous and non-hazardous solid waste storage, treatment and/or disposal sites on a facility map.	
	•	Green St.
	c. Describe the management of storm water runoff for the solid waste disposal site(s). MAY () 2 200 $^{\circ}$)0
	The solid waste disposal site is managed so as to prevent storm waster that has come in contact with solid waste from discharging CATIONS to the land surface or Welsh Reservoir.	ERMIT TEAM

to the land surface or Welsh Reservoir.

	YES NO χ If YES, describe the leachate collection, treatment and disposal method.
P 1.€	MESTIC SEWAGE, SEWAGE SLUDGE, AND/OR SEPTAGE MANAGEMENT AND DISPOSAL: Lase check the appropriate method(s) of domestic sewage and domestic sewage adge treatment/disposal and complete Attachment F if directed. Domestic sewage is not generated on-site. PROCEED TO QUESTION NO. 10.
	X Facility is connected to a wastewater treatment plant permitted to receive domestic sewage or domestic sewage is transported off-site to
	a permitted facility for treatment and/or disposal. PROVIDE THE NAME AND THRCC, NPDES, and/or TPDES PERMIT NO. OF THE PLANT WHICH RECEIVES THE DOMESTIC SEWAGE. IF HAULED BY MOTORIZED VEHICLE, PROVIDE THE NAME AND THRCC REGISTRATION NO. OF THE HAULER. The plant that receives the
	sanitary sewage sludge is the city of Lone Star, TX waste water treatment plant. The permit number for the wastewater treatment plant is 12411-01. The permit number of the transporter - Allwaste Environment Services, Inc. is 002, also referenced as Texas Department of Health (TDH) number 20124.
	Industrial wastewater and domestic sewage are commingled prior to wastewater treatment.
	Industrial wastewater and domestic sewage are treated separately. Domestic treatment sludges and/or domestic septage are commingled with industrial wastewater treatment sludges prior to sludge use or disposal. COMPLETE ATTACHMENT F OF THIS APPLICATION.
	Industrial wastewater and domestic sewage are treated separately. Domestic treatment sludges and/or domestic septage are NOT commingled with industrial wastewater treatment sludges prior to sludge use or disposal. COMPLETE ATTACHMENT F OF THIS APPLICATION.
	Domestic sewage is disposed of by on-site septic tank. COMPLETE ATTACHMENT F OF THIS APPLICATION. MAY 0 2 2000
	Other (Please provide detailed description). WASILIVATED TERMS TERMS

d. Is any leachate collected from the solid waste disposal site(s)?

T

If NO, go to Item 11. If YES, proceed as directed. a. Do you receive wastes, for treatment at your facility, from off-site source which are directly related to the on-site activities conducted at you facility? YES NO If YES, provide a list of the waste(s) received (including volumes characterization, and compatibility with on-site wastes), identify the source(s) of the waste(s) (name and address of the generator), and describ the relationship of the waste source(s) with your facility's activities. b. Is wastewater from a TNRCC, NPDES, and/or TPDES permitted facilit commingled with your wastewater after your final treatment and prior t discharge via your final outfall or disposal on-site via land application YES NO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. C. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TEM.	
a. Do you receive wastes, for treatment at your facility, from off-site source which are directly related to the on-site activities conducted at you facility? YESNO If YES, provide a list of the waste(s) received (including volumes characterization, and compatibility with on-site wastes), identify the source(s) of the waste(s) (name and address of the generator), and describe the relationship of the waste source(s) with your facility's activities. b. Is wastewater from a TNRCC, NPDES, and/or TPDES permitted facility commingled with your wastewater after your final treatment and prior to discharge via your final outfall or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. C. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has own required to have an approved pretreatment program under the NPDES/TPDES	
which are directly related to the on-site activities conducted at you facility?	
If YES, provide a list of the waste(s) received (including volumes characterization, and compatibility with on-site wastes), identify the source(s) of the waste(s) (name and address of the generator), and descripe the relationship of the waste source(s) with your facility's activities. b. Is wastewater from a TNRCC, NPDES, and/or TPDES permitted facility commingled with your wastewater after your final treatment and prior to discharge via your final outfall or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	•
characterization, and compatibility with on-site wastes), identify the source(s) of the waste(s) (name and address of the generator), and describe the relationship of the waste source(s) with your facility's activities. b. Is wastewater from a TNRCC, NPDES, and/or TPDES permitted facility commingled with your wastewater after your final treatment and prior to discharge via your final outfall or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	
commingled with your wastewater after your final treatment and prior to discharge via your final outfall or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. C. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has on required to have an approved pretreatment program under the NPDES/TPDE	<u> </u>
commingled with your wastewater after your final treatment and prior to discharge via your final outfail or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	
commingled with your wastewater after your final treatment and prior to discharge via your final outfall or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. C. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has on required to have an approved pretreatment program under the NPDES/TPDE	
commingled with your wastewater after your final treatment and prior to discharge via your final outfall or disposal on-site via land application YESNO If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. C. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has on required to have an approved pretreatment program under the NPDES/TPDE	
If YES, provide the name, address, and TNRCC, NPDES, and/or TPDES perminumber of the contributing facility and a copy of any agreements and/or contracts relating to this activity. c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE)
c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has on required to have an approved pretreatment program under the hypes/TPD	: :
c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	
c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	. •
c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	
c. Is your facility a Publicly Owned Treatment Works (POTW) that accept process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	
process wastewater from any Significant Industrial User (SIU) and has one required to have an approved pretreatment program under the NPDES/TPDE	
program?	
WASTEWATER PE	5
If YES, then complete Attachment G of this permit application as directed	s S S SMITS
	s S RMITS' EAM

11. SIGNIFICANT LEAKS AND/OR SPILLS

Please provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility within the last three (3) years. Include the approximate date and location of the spill/leak, and the type of material and amount of material released.

N/A

12. COMPLIANCE HISTORY

Are you currently required to meet any implementation schedule for the construction, operation, or upgrading of your wastewater treatment equipment? This requirement includes Federal, State, or local authority permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, or grant and loan conditions.

VEC	v	NO
YES	Λ	NO

If YES, provide a brief summary of the requirements.

13. Radioactive materials shall not be discharged in excess of the amount regulated by 25 TAC Sections 289.11-289.126 (relating to Texas Regulations for Control of Radiation) and 30 TAC Chapter 336 (relating to Radiation Rules). If you mine, use, store, or process any radioactive material(s), list the radioactive materials and provide the results of at least one analysis of your effluent in picocuries per liter (pCi/L) for all radioactive parameters which may be present. (This requirement is not applicable to radioactive materials fixed in a device or instrument.) If this application is for a new Macility submit AMITS results from similar facilities, treatability studies, or literapure sources. TEAM

N/A

14.	Does your facility use any cooling towers or boilers that discharge blowdown or other wastewater streams to the outfall(s)?
	X YES NO See Attachment R
,	If YES, the following information on all chemical additives including biocides must be submitted for cooling towers and boilers. If aquatic toxicity information is not available, additional effluent biomonitoring may be required. If the MSDS sheets do not contain the information specified below, it will be necessary to obtain the information from the manufacturer. Provide a summary of this information in addition to the submittal of the MSDS sheets. Please specify which outfalls are affected.
	 a. Manufacturers Product Identification Number. b. Product Use. (e.g., biocide, fungicide, corrosion inhibitor, etc.) c. Chemical Composition including Chemical Abstracts System (CAS) number for each ingredient. d. Product toxicity data specific to fish and aquatic invertebrate organisms.
	Specify if data is for the whole product or for an active ingredient. e. Classify product as non-persistent, persistent, or bioaccumulative. f. Product or active ingredient half-life.
	g. If data in Item d., above is for the whole product, indicate the concentration of the whole product in the blowdown stream. If data in Item d., above is for the active ingredient, indicate the concentration of the active ingredient in the blowdown stream. h. Frequency of product use (e.g., 2 hr/day once every two weeks).
	i. The number of cooling towers on site is(e.g., 2,3,4, etc.) and the total blowdown volume is:
-	Daily Average gallons/day
	Daily Maximum gallons/day
	j. The number of boilers on site is 3 (e.g., 2,3,4, etc.) and the total blowdown volume is:
	Daily Average 25,000 gallons/day
	Daily Maximum 50,000 gallons/day

CEIVED

MAY 0 2 2000

WAS LEVIALER PERMITS APPLICATIONS TEAM

REVISED 12/98

15.	Does your facility dis	charge once-	through cool	ling water to	the outfall(s)?
	XYES NO	See Attachm	ent R		·
	If YES, the following and bromine must be available, additional sheets do not contain to obtain the information in additional which outfalls are aff	submitted. effluent bi the informati on from the on to the su	If aquati omonitoring on specified manufacture	c toxicity may be requ l below, it w r. Provide	information is not ired. If the MSDS ill be necessary to
	a. Manufacturers Product Use. (e.g., c. Chemical Composition each ingredient. d. Product toxicity da Specify if data is e. Classify product as f. Product or active if g. If data in Item concentration of the If data in Item doncentration of the stream. h. Frequency of product	biocide, further biocide, further the whole product, above in active in the biocide of the bioci	ngicide, cor Chemical Above to fish and e product or ent, persist lf-life. is for the ct in the one for the ac gredient in	rosion inhib stracts Syste aquatic inve for an acti ent, or bioa whole prod ce-through co- ctive ingred the once-thr	em (CAS) number for rtebrate organisms. ve ingredient. ccumulative. luct, indicate the oling water stream. ient, indicate the cough cooling water
16.	IMPOUNDMENTS:	_	•	•	
	Do you use or plan to (T), disposal (D), con	tainment (C) If YES, co and items skip items	, or evapora mplete items a-i for prop a-i:	tion (E) of	your wastewater?
	a. What are the dimens	ions of the	impoundment(s)?	
	Designation: (T) (C) (D) or (E)	POND 1 T	POND 2	POND 3	POND 4
			<u></u>		
	Length	•	N/A ft	ft	- FEIVE I
	Width	N/A ft	N/A ft	ft	ft
	Depth from water surface	N/A ft	N/A ft	ft	MAY 0 2 2000
	Depth below natural ground level	N/A ft	N/A ft	ft	WAS LEVALER PERMITS APPELCATIONS TEAM
	For impoundments w length and width), ground level.	ith irregula the average	r shapes, su depth, and t	ubmit surface the maximum o	e area (instead of lepth below natural
	The surface area of				

b.	What i	is the cap	acity	of the i	.mpoundment(s) ?			
			PON	D 1	POND 2	POND 3	POND 4	•	
-	Gallor	ıs	6 <u>5,1</u>	200, 200	14,665,500				
	Acre-E	Feet	2 <u>00</u>	<u>@ 1</u> 0ft	<u>45 @</u> 10ft				
c.	If a associ	discharg lated with	e occ the i	urs fro mpoundme	m the impou	ındments, d	lesignate	the Outfall	
			PON	<u>D 1</u>	POND 2	POND 3	POND 4		
	Outfal	ll No.	00	1	001				
d.	Are specia	the importications?	undmen Pleas	ts line e descri	d to compl be the pond	y with or liner. N/A		e following	
	(1)	along the	sides no mor noistur	and bo e than 9 re conte	ttom, of cla inches, to 9	er shall co y-rich soil 5% standard	ntain at l material proctor de	east 3 feet, compacted in nsity at the l to or less	
	(2)	along the	e side passin nd a p	s and bog a 200-o	mesh sieve, l	ay-rich soi iquid limit er than or e	l material greater t equal to 15	east 3 feet, having more han or equal , to achieve	
	(3)	membrane the side degradati into con	liner s and ion due tact. et det of at	at least the bot to rea If thi eriorati	: 30 mils in tom of the p ction with w s lining mag on it should	thickness wo pond and wh astewater w terial is w be covered w	which complich is not ith which rulnerable with a prot	ic or rubber etely covers subject to it will come to ozone or ective layer tem is also	
			YES	NO L	iner Descrip	tion			
		Pond 1		<u>X</u> _					520 T
		Pond 2		<u>X</u> _			<u> </u>	ECEIV	₹-024 ¥
		Pond 3						MAY 0 2 200)()
		Pond 4					W	APPLICATIONS	ERMITEAN TEAN

- e. Submit any available data on the following: N/A
 - (1) Liner permeability, liner thickness, test results on liner compatibility with appropriate wastes, test results from clay borrow source, test results from liner construction, etc.
 - (2) For impoundments constructed using in-situ soils as the liner: submit available soils boring information, the depth of impermeable clay soils, test results on soil permeability, procedures for compaction of top layer of in-situ soil, etc.
 - (3) Analytical data on wastewater stored in each impoundment. (Additional testing is not being required, initially. However, information regarding levels of the contaminants that are listed in TABLES B-1 through B-9 may be useful in assessing the need for including pond lining requirements in the permit.)
- f. Are there any leak detection systems or ground water monitoring wells in place or planned?

YES	X	NC

If YES, describe in a separate attachment, the leak detection system for each pond and/or attach any available ground water monitoring well data. All ground water monitoring wells must be numbered and accurately located on a map submitted with the application.

Existing ground water monitoring data should be summarized and evaluated to determine if there is a statistically significant trend in concentrations and/or a statistically significant difference compared with background. The ground water monitoring summary should also include information on the monitoring wells such as the driller's logs, well completion data, ground water elevations, sampling procedures, etc.

g. Is the bottom of the pond above the seasonal high water table in the most shallow water bearing zone?

YES	X	NO

- h. On a USGS quadrangle map, accurately locate and identify water supply wells within a 1 mile radius of the impoundments. Submit copies of State Water Well Reports (driller's logs, completion data), and data on depths to ground water for water supply wells including a description of how the depths to ground water were obtained.
- See Attachment S

 i. Include any other pertinent site-specific data that is available pertaining, 2000 to the ground water, soils, geology, etc. that has been or can be Mised to assess the potential for migration of wastes from the impoundments and the potential for contamination of ground water or surface water. Additional data may include logs and location plats of borings, soil analysis water of years and quality data, etc.

 N/A

ATTACHMENTS

TO THE INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT

The following attachments may be required to be completed and submitted with the technical report. Please indicate, at the end of this section, if the attachment is completed and submitted with the technical report based on the following:

ATTACHMENT A: EPA EFFLUENT CATEGORICAL GUIDELINES

Attachment A is required to be submitted for applications which seek authorization to discharge wastewaters which are subject to USEPA Effluent Limitation Guidelines - Title 40 of the Code of Federal Regulations (40 CFR), Parts 400 - 471.

If your are requesting authorization to discharge a wastewater which is subject to an effluent limitation guideline then complete Attachment A as directed. If your business or industry is not subject to an effluent limitation guideline then skip Attachment A.

ATTACHMENT B: EFFLUENT CHARACTERIZATION AND ANALYTICAL TESTING

Attachment B is required to be submitted for all applications.

ATTACHMENT C: LAND DISPOSAL OF EFFLUENT

Attachment C is required to be submitted for applications which seek authorization for the use of land disposal (irrigation, evaporation, etc.) as a method of effluent disposal.

If this application seeks a new authorization or a renewal (with or without an amendment request) of an existing authorization to use land disposal for effluent disposal then complete Attachment C as directed. If this application does not request any authorization for land disposal of effluent then skip Attachment C.

CEIVEL

MAY 0 2 2000

MASSESSAIER PERMITAPPLICATIONS, TEAM

ATTACHMENT D: TOXICITY TESTING

Attachment D is required to be submitted for applications which contain 1) process wastewater outfalls and/or any other continuous discharge outfalls from an industrial facility subject to EPA Categorical Standards (40 CFR 400-471), 2) process wastewater outfalls and/or any other continuous discharge outfalls from an industrial facility classified as an EPA Major, or 3) treated domestic wastewater from outfalls at flows of 1 MGD or greater. External outfalls conducting routine toxicity testing as a requirement of the currently issued wastewater discharge permit do not need to be re-tested. Internal outfalls also do not need to be tested.

If this application requires toxicity testing, urder the conditions stated above, then complete Attachment D as directed. If this application does not require toxicity testing, under the conditions stated above, then skip Attachment D.

ATTACHMENT E: RECEIVING WATERS

Attachment E is required to be submitted for applications for a permit to discharge wastewater into waters in the state.

Attachment E is not required to be submitted for applications for a permit which seeks authorization for the use of land disposal (irrigation, evaporation, etc.) as the only method of effluent disposal with no discharge of wastewater into waters in the state.

ATTACHMENT F: SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

Attachment F is required to be submitted for <u>some</u> applications to obtain information concerning the disposal of domestic sewage sludge and/or domestic septage. Please refer to Item No. 15 on Page No.8 of the technical report to determine if Attachment F is required for your application.

ATTACHMENT G: INDUSTRIAL WASTE CONTRIBUTION

Attachment G is required to be submitted for applications from those facilities which have or are required to have an approved pretreatment program under the TPDES program.

If this facility does have or is required to have an approved pretreatment program under the TPDES program, then complete ANACHMENT 2000 G as directed. If this facility does not have and is not required to have an approved pretreatment program under the TPDES program, then promits skip Attachment G.

APPLICATIONS TEAM

ATTACHMENT T

SCOPE OF PROPOSED PERMIT CHANGES

MAY 02 2000

APPLICATIONS TENANT

SCOPE OF PROPOSED PERMIT CHANGES

Addition of an Ash Storage Unit

On behalf of Welsh Power Plant, Central and South West Services, Inc. (CSWS) requests inclusion of an additional Ash Storage Unit into the facility design specifications. The Ash Storage units have been located and drawn to size on the original topographic map included in the amendment application as "Attachment M". Any water that is de-watered from the proposed Ash Storage unit will be routed to the ash pond system and discharged through Outfall 001, as appropriate. All of the solid waste regulatory requirements have already been fulfilled for this new unit (prior to initiation of construction), including the required deed recording activities. The types of wastes entering Outfall 001 through the ash pond system from the new ash storage unit will remain the same as they are in existing operations at the facility.

Inclusion of Cooling Towers in Design Specifications for the Facility

CSWS also requests the inclusion of cooling towers located along the discharge canal for Outfall 003 to be specifically identified and included in the design specifications for Welsh Power Plant. As you may recall, Outfall 003 was an internal outfall (Outfall 103) in all of the previous permits. CSWS believes that the nature of the manner in which the outfall was operated and regulated in the past may have gotten lost in the re-designation of the outfall as an external outfall during processing of the new TPDES permit. The water flow diagram (Attachment J) has been revised to include the cooling towers, as appropriate.

During the hot summer months, Welsh has historically used cooling towers to enhance cooling of once-through cooling water once it has been passed through the condensers. These cooling towers are located approximately one-half mile from the power plant, along the canal utilized by the facility to route the waste cooling water to Outfall 003.

After the cooling water is passed through the condensers and enters the canal, the cooling towers can be operated as needed in the hot summer months to enhance cooling of the water before it is re-introduced to Welsh Reservoir. The cooling towers are operated only as a once-through pass system, and are not cycled so as to eliminate the potential to concentrate any potential pollutants. This system is operated solely for the additional temperature benefit it provides to Welsh Reservoir.

The portion of water diverted into the cooling towers can be monitored (as it has in the past via combined samples) prior to being pumped into the towers, and consists of the exact same water that is discharged through Outfall 003. We respectfully request to continue monitoring the cooling water discharge as we have for the previous permits. We believe that the proposed continuance of monitoring is the most consistent method of monitoring given existing operations, and is representative of all of the cooling water that is discharged to the reservoir.

MAY 0 2 2000

Reduced Monitoring Frequency for Residual Chlorine at Outfall 002

The new TPDES Permit for Welsh Power Plant contains a requirement for Outfall 002 (under footnote 3. on page 2b) that the "effluent shall contain a chlorine residual of at least 1.0 mg/l and a maximum of at least 4.0 mg/l after a retention time of at least 20 minutes (based on peak flow), and shall be monitored five times per week, by grab sample". CSWS hereby requests to have the monitoring frequency for residual chlorine reduced from five times per week to once per week for Outfall 002. This request is proposed in order to provide consistency with the other associated parameter monitoring frequencies for the same outfall (once per week for BOD and Total Suspended Solids).

We appreciate your consideration with regard to the aforementioned requests.

MAY 0 2 2000

WIINCUMENT D: DEPARTMENT DODSIANCE	ATTACHMENT	H:	HAZARDOUS	SUBSTANCES
------------------------------------	------------	----	-----------	------------

Attachment H is required to be submitted for all applications.

ATTACHMENT I: POLLUTION PREVENTION

Attachment I is required to be submitted for all applications.

ATTACHMENT J: SCHEMATIC OF WASTEWATER FLOWS EXAMPLE

Attachment J is an example of the type of wastewater flow schematic which is expected to be submitted in response to Item No. 3.f. In Page No. 3 of the technical report. The example provided in the application as Attachment J does not need to be submitted with the application. An actual schematic of your facility's wastewater flows must be submitted with application as Attachment J.

ATTACHMENT K: STORM WATER PERMITTING

ATTACHMENT

Attachment K is intended to provide information concerning which conditions require individual TPDES permits for storm water discharges. Attachment K does not need to be submitted with the application.

COMPLETED AND SUBMITTED

Please indicate which attachments are completed and submitted with the technical report based on the above information. Attachments that are not applicable do not need to be submitted with the technical report.

WITH THE TECHNICAL REPORT: Х EPA EFFLUENT CATEGORICAL GUIDELINES NO ____ YES A : EFFLUENT CHARACTERIZATION AND ANALYTICAL TESTING NO YES NO X LAND DISPOSAL OF EFFLUENT YES X TOXICITY TESTING YES NO D: Χ __ ио: ____ YES Ε: RECEIVING WATERS NO X SEWAGE SLUDGE MANAGEMENT AND DISPOSAL YES ио Х INDUSTRIAL WASTE CONTRIBUTION YES G: NO ____ н: HAZARDOUS SUBSTANCES YES RECEIVE X POLLUTION PREVENTION YES мо ____ I: MAY 0.2 2000

WASTEWATER TE ATTE

ATTACHMENT A

EPA EFFLUENT CATEGORICAL GUIDELINES

Table A-1 is a list of effluent limitation guidelines as found in Title 40 Code of Federal Regulations, Parts 400 - 471. Check the category(s) that applies to wastewater generated at your facility.

ΤA	BI	ıΕ	Α.	- 1

TABLE A-1	
INDUSTRY	40 CFR PART
Dairy Products Processing	405
Grain Mills	406
Canned and Preserved Fruits and Vegetables	407
Canned and Preserved Seafood Processing	408
Sugar Processing	409
Textile Mills	410
Cement Manufacturing	411
Feedlots	412
Electroplating	413
Organic Chemicals, Plastics, and Synthetic Fibers	414
Inorganic Chemicals	415
Soap and Detergent Manufacturing	417
Fertilizer Manufacturing	418
Petroleum Refining	419
Iron and Steel Manufacturing	420
Nonferrous Metals Manufacturing	421
Phosphate Manufacturing	422
Canned and Preserved Fruits and Vegetables Canned and Preserved Seafood Processing Sugar Processing Textile Mills Cement Manufacturing Feedlots Electroplating Organic Chemicals, Plastics, and Synthetic Fibers Inorganic Chemicals Soap and Detergent Manufacturing Fertilizer Manufacturing Petroleum Refining Iron and Steel Manufacturing Nonferrous Metals Manufacturing Phosphate Manufacturing XX Steam Electric Power Generating Ferroalloy Manufacturing	423
Ferroallov Manufacturing	424
Leather Tanning and Finishing	425
Glass Manufacturing	426
Ashestos Manufacturing	427
Rubber Manufacturing	428
Timber Products Processing	429
Puln Paner and Panerhoard	
Ruilders! Paner and Board Mills	430
Meat Droducts	431
Metal Finishing	432
Coal Mining	433
Oil and Gas Wytraction	434
Mineral Mining and Drocessing	435
Pharmacoutical Manufacturing	436
Oro Mining and Drossing	439
Daving and Boofing Materials	440
Paint Formulating	443
Tale Resmulating	446
Cim and Wood Chamicala Manufacturing	447
Gum and wood Chemicals Manufacturing	454
Pesticide Chemicals	455
Explosives Manufacturing	457
Carbon Black Manufacturing	458
Photographic	459
Hospital Path and Manufacture	460
Bactery Manufacturing	461
Plastics Molding and Forming	463
XX Steam Electric Power Generating Ferroalloy Manufacturing Leather Tanning and Finishing Glass Manufacturing Asbestos Manufacturing Rubber Manufacturing Timber Products Processing Pulp, Paper, and Paperboard Builders' Paper and Board Mills Meat Products Metal Finishing Coal Mining Oil and Gas Extraction Mineral Mining and Processing Pharmaceutical Manufacturing Ore Mining and Dressing Paving and Roofing Materials Paint Formulating Ink Formulating Gum and Wood Chemicals Manufacturing Pesticide Chemicals Explosives Manufacturing Carbon Black Manufacturing Photographic Hospital Battery Manufacturing Plastics Molding and Forming Metal Molding and Casting Coil Coating	464
0022 0040233	465
Porcelain Enameling	466
Aluminum Forming	467
Copper Forming	468
Electrical and Electronic Components	469
Nonferrous Metals Forming and Metal Powders	471
N/A DE C	
RECEIVER	

MAY 02 2000

If limitations in the are expressed in terproduction), provide production over the subcategory. For refine process unit, the through	ms of production a quantity rep last three years eries (40 CFR Part	e.g. lbs of porcession of the contactive of the contactive of the contaction of the	pliutant/1000 lbs the actual level or each category de the size of each
	ACTUAL	DESIGN	
SUBCATEGORY	QUANTITY/DAY	QUANTITY/DAY	UNITS
N/A			
			
	•		· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·
streams, if any. See 4	% of Total Production	APPENDIX A AN	ID B
SUBCATEGORY	% of Total		
<u>-</u>	% of Total		
SUBCATEGORY	% of Total		
SUBCATEGORY	% of Total		
SUBCATEGORY	% of Total		
SUBCATEGORY	% of Total		
SUBCATEGORY	% of Total		
SUBCATEGORY N/A	% of Total Production	Metal Pro	cess
SUBCATEGORY	% of Total Production FR Part 419), pleng, petrochemical,	Metal Pro	specific subcatego
For refineries (40 CF (i.e., topping, cracking is classified as and in the control of the contro	% of Total Production FR Part 419), pleng, petrochemical,	ase identify the lube, and/or integ	specific subcatego
For refineries (40 CF (i.e., topping, cracking is classified as and in the control of the contro	% of Total Production FR Part 419), pleng, petrochemical, include a justific	ase identify the lube, and/or integ	specific subcatego
For refineries (40 CF (i.e., topping, cracking is classified as and in the control of the contro	% of Total Production FR Part 419), ple ng, petrochemical, include a justific	ase identify the lube, and/or integation for the class	specific subcategorated) your facilisification.
For refineries (40 CF (i.e., topping, cracking is classified as and in the control of the contro	% of Total Production FR Part 419), ple ng, petrochemical, include a justific	ase identify the lube, and/or integ	specific subcatego rated) your facili

3. Provide a breakdown of process wastewater flow(s) and non-process wastewater flow(s) as defined for the industry in the appropriate guideline category. This quantitative listing of all wastewater sources is required in addition to a schematic flow diagram.

See Item #4 in Next paragraph

4. Please list all the processes which are <u>both</u> subject to USEPA Effluent Limitation Guidelines <u>and</u> generate a wastewater which is discharged via this permit. Please provide <u>all</u> the requested information for each process listed.

PROCESS	EPA GUIDELINE (PART & SUBPART)	DATE PROCESS BEGAN OPERATION (*1)
Once through cooling water	40 CFR Part 423	March 31, 1977
Low volume wastewater/Ash	40 CFR Part 423	March 31, 1977
Transport water / cool pile runof	f (combined)	
Chemical Metal Cleaning Waste	40CFR Part 423	March 31, 1977
Treated Sanitary Sewage Effluent	40 CFR Parts 122,1	2 <u>5.136 March 31.1</u> 977
	- 1000000000000000000000000000000000000	

(*1) May also include the date construction for the process commenced.

RECEIVE E

WASTEVWAILER FE WAITS APPLICATIONS TEAM

ATTACHMENT B

EFFLUENT CHARACTERIZATION AND ANALYTICAL TESTING

GENERAL GUIDANCE FOR ATTACHMENT B: 1.

Attachment B contains a series of analytical tables which may need to be completed in order for the application to be technically complete. Following is a listing of conditions which determine when a particular table is required to be completed and when it is not required. Please note that the term "complete table required" means that all pollutants listed on that table are required to be tested if the table is required and the term "partial table required" means that only certain pollutants from the table (as determined by the instructions) will be required to be tested if the table is required.

Complete table required for all external outfalls which do not TABLE B-1: discharge solely storm water.

> Complete table required for all final effluent monitoring points for effluent disposed of via land application or evaporation.

Not required for internal outfalls or storm water only discharges.

Complete table required for all external outfalls which discharge TABLE B-2: process wastewater.

> Partial table (only those pollutants that are used at the facility as a feedstock, intermediate, product, byproduct, coproduct, maintenance chemical or that could in any way contribute to contamination in the wastewater streams) required for each continuously discharging nonprocess external outfall (including noncontact cooling water). Please respond with a "N/A" for each individual pollutant which is not analyzed under this condition.

> Not required for internal outfalls or storm water only discharges.

partial table (only those pollutants which are required by the TABLE B-3: conditions specified) required for each external outfall.

Not required for internal outfalls or storm water only discharges.

Complete table required for all external outfalls which discharge TABLE B-4: process wastewater and other wastewaters, which may contain pesticides or herbicides, from a facility which manufactures or formulates pesticides or herbicides.

Not required for internal outfalls or storm water only discharges.

Complete table required for all external outfalls. TABLE B-5:

Not required for internal outfalls or storm water only discharges.

Partial table (only those <u>fractions</u> as specified in Table B-6) TABLE B-7: required for all process wastewater outfalls.

Complete table required for each external outfall under the TABLE B-8 conditions specified.

Not required for internal outfalls or storm water only discharges.

Partial table (only those pollutants which are required by the TABLE B-9 conditions specified) required for each external outfall.

WAY () 2 2000

Not required for internal outfalls of storm water only discharges.

WAS LEVALED FERMITS
APPLICATIONS TEAMER

- Table B-10: Complete table required for all external outfalls which discharge solely storm water runoff associated with "industrial activity" and are not regulated by an NPDES/TPDES multi-sector or construction general storm water permit. Please refer to Attachment K for specific guidance.
- TABLE B-11: Partial table (only those pollutants which are required by the conditions specified) required for all external outfalls which discharge solely storm water runoff associated with "industrial activity" and are not regulated by an NPDES/TPDES multi-sector or construction general storm water permit. Please refer to Attachment K for specific guidance.

2. GENERAL REQUIREMENTS FOR ATTACHMENT B:

- All information submitted with this attachment shall comply with the following:
- a. For pollutants currently regulated in your permit, report the average and maximum values from the Monthly Effluent Reports for the previous 24 months for all pollutants in the existing permit regardless of the required monitoring frequency. (For pH, report the minimum and maximum values.)
- b. Tables B-1, B-2, and B-3: For pollutants not currently regulated in your permit, average and maximum concentrations must be calculated from at least four (4) separate analytical results obtained from four (4) grab or composite samples collected at a frequency of 1/week for a period of 4 weeks from the wastewater stream unless otherwise specified in the application or approved by the TNRCC. Prior approval to submit less than four (4) samples should be obtained from the TNRCC prior to application submittal.

Tables B-4, B-5, B-7, B-8, B-9, B-10, and B-11: For pollutants not currently regulated in your permit, average and maximum concentrations may be calculated from at least one (1) analytical result obtained from a grab or composite sample.

The quantitative data may be data collected over the past 365 days.

- c. If this application is for a new discharge, results from similar facilities, treatability studies, design information, or literature sources may be submitted when real effluent analytical data is not available. The basis of the "results" submitted should be explained.
- d. For facilities which have an intermittent discharge from final retention impoundment(s) when the impoundments reach holding capacity and a discharge is not foreseen in the near future; samples of the effluent currently stored in the impoundment may be used to satisfy the analytical requirements.
- e. Test Methods utilized should be sensitive enough to detect the constituents at the Minimum Analytical Level (MAL) specified. For analytical results that are non-detect, please report the analytical values as less than the detection level (example: a result that is non-detect with a detection level of 50 ug/l should be reported as "< 50 ug/l").
- f. Grab samples must be used for pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, and enterococci. 24-hour composite samples must be used for all other pollutants.
- g. If any of the analysis reported in this application are performed by a contract laboratory or a consulting firm, please provide the name, address, and telephone number for each laboratory and/or firm. Also specify which pollutants were analyzed by which laboratory/firm.

MAY 0 2 2000 WASTEWATER PERMITS APPLICATION T 3. Outfalls that contain any wastewater other than storm water (e.g., process wastewater, utility wastewater, domestic wastewater, groundwater, etc.) must complete TABLE B-1. Facilities that utilize land application or evaporation for wastewater treatment/disposal must also provide these analytical results.

TABLE B-1

OUTFALL 001 Sample Typ	e: GRAB	COMPOSITE X			
	INFLUENT		EFFLU	ENT	
	CONCENTRATION	NUMBER	CONCENT		NUMBER
DOL C LIMB FILE	(mg/1) AVG. MAX.	OF SAMPLES	(mg/ AVG.	MAX.	OF SAMPLES
POLLUTANT BOD (5-day)	AVG. PAR.	OHITTED	AVG.	3	SAMPLES
CBOD (5-day)				<u>Z</u> 2	1
Chemical Oxygen Demand				<u>-15</u>	
Total Organic Carbon				<u></u>	- 1- 1
Ammonia Nitrogen				_0_5_	
Total Suspended Solids					
Nitrate Nitrogen				0.2	,
Total Organic Nitrogen				0.5	<u></u>
Total Phosphorus		•:		<u> 0.23</u>	1
Oil and Grease	**	-	∠ 5	5 5	4
Total Residual Chlorine					
Total Dissolved Solids			<u></u>	437	
Sulfate				160	
Chloride				-26-	1
Fluoride				0.51	1
Fecal Coliform			60	120_	4
Temperature(°F)					
pH (Standard Units; min/ma	x)		7.0 (mi	n) 8.4 (M	AX) 104
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociable Total Lead Total Mercury Total Nickel Total Phenols Total Selenium Total Silver Total Thallium Total Zinc	e)	AVG. 7.7	MAX. 2,553 30 10 601 510 610 710 710 710 710 710 710 7	NUMBER OF SAMPLES 1 1 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	MAL
	APPI, WATE	14			

TABLE B-2 contains a list of organic compounds included in the Texas Surface Water Quality Standards at 30 TAC 307.6. TABLE B-2 must be completed with the results of an analysis of all pollutants for each outfall that contains process wastewater. In addition, an analysis for each continuously discharging nonprocess outfall (including noncontact cooling water) must be provided for only those pollutants in TABLE B-2 that are used at the facility as a feedstock, intermediate, product, byproduct, coproduct, maintenance chemical or that could in any way contribute to contamination in the wastewater streams.

TABLE B-2

OUTFALL 001	TABLE B-2	•		
OUTFALL OUT	CONG/1	1		
POLLUTANT	CONC. µg/l AVG.	(*1) MAX.	NUMBER OF	MAL
a Canada a a a a a a a a a a a a a a a a a	AVG.	PLA.A.	SAMPLES	(µg/l)
Benzene		∠ 10	1	10
Benzidine		< 50	1	50
Benzo(a)anthracene		< 10	1	10
Benzo(a)pyrene		< 10	1	10
Bis(chloromethyl)ether (*2)		< 10	1	
Carbon Tetrachloride		< 10	1	10
Chlorobenzene		<u>< 10</u>	1	10
Chloroform		<u><10</u>	1	10
Chrysene	· <u>-</u>	< 10	1	10
Cresols		ND.	1	(*3)
Dibromochloromethane		<10 <u></u>	1	10
1,2-Dibromoethane		< 2	1	2
1,4-Dichlorobenzene		<u><10</u>	1	10
1,2-Dichloroethane		<u><10</u>	1	10
1,1-Dichloroethylene	, , , , , , , , , , , , , , , , , , ,	<u>≺10</u>	1.	10
Fluoride	· · · · · · · · · · · · · · · · · · ·	510	1	500
Hexachlorobenzene		< 10	1	10
Hexachlorobutadiene		< 10	1	10
Hexachloroethane		< 10	1	20
Methyl Ethyl Ketone		<u>≺ 50</u>	1	50
Nitrobenzene		< 10	1	10
n-Nitrosodiethylamine		≺ 20	1	20
n-Nitroso-di-n-Butylamine		< 20	1	20
PCB's, Total (*4)		<u>≺ 10</u>	1	1
Pentachlorobenzene	 	< 20	1	20
Pentachlorophenol		< 50	1	50
Phenanthrene		< 10	1	10
Pyridine		< 20	1	20
1,2,4,5-Tetrachlorobenzene		< 20	1	20
	· · · · · · · · · · · · · · · · · · ·			

Tetrachloroethylene

1,1,1-Trichloroethane

2,4,5-Trichlorophenol

TTHM (Total Trihalomethanes)

Trichloroethylene

Vinyl Chloride

 ≤ 10

< 10

< 10

< 50

< 10

< 10

10

10

10

50

10

1.0

MAY 02 2000 1016.

^(*1) Indicate units if different from µg/l.

^(*1) Indicate units II different from pg/I.

(*2) Hydrolyzes in water. Will not require applicant to analyze at this time.

(*3) MAL's for Cresols: p-Chloro m-Cresol 10 µg/l; 4,6-Dinitro-o-Cresol 50 µg/l; p-Cresol 10 µg/l

(*4) Total of PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-

5.	indi	E B-3 contains testing requirements for the compound "Tributyltin" and for the cator bacteria "enterococci." Not all applicants are required to test for utyltin or enterococci. Testing is required only under the following conditions:
	·A.	TRIBUTYLTIN
		Testing will be required for 1) industrial/commercial facilities which directly dispose of wastewater from the types of operations listed below OR 2) domestic

	1)	Manufacturers and formulators of tributyltin or related compounds, including, but not limited to SIC code 2879. Testing required.
	2)	Painting of ships, boats and marine structures, including, but not limited to SIC code 1721. Testing required.
	3)	Ship and boat building and repairing, including, but not limited to SIC codes 3731, 3732 and 3441. Testing required.
	4)	Ship and boat cleaning, salvage, wrecking and scaling, including, but not limited to SIC codes 4499 and 7699. Testing required.
	5)	Operation and maintenance of marine cargo handling facilities and marinas, including, but not limited to SIC codes 4491 and 4493. Testing required.
 ,	6)	Facilities engaged in wood preserving, including, but not limited to, SIC code 2491. Testing required.
	7)	Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent. Testing required.

facilities which receive wastewater from the types of industrial/commercial operations listed below. Please check all that apply.

B. ENTEROCOCCI

Testing will be required for all dischargers directly into the Houston Ship Channel (classified stream segment nos. 1006 or 1007). Please check all that apply.

X 8) None of the above. No testing required.

1) Discharge is directly to the Houston Ship Channel (classified stream segment number 1006 or 1007). Testing required.

Z 2) Discharge is <u>not</u> directly to the Houston Ship Channel (classified stream segment number 1006 or 1007). No testing required.

 $_{\mathrm{H}}^{H}$

OUTFALL N/A

Concentration NUMBER OF MAL

POLLUTANT AVG. MAX. Units SAMPLES (µg/1)

Tributyltin O.010

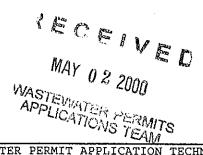
Enterococci MAY 0 2 2000

6. TABLE B-4 contains a list of pesticide compounds included in the Texas Surface Water Quality Standards at 30 TAC 307.6. TABLE B-4 must be completed if the facility manufactures or formulates pesticides or herbicides. Complete TABLE B-4 with the results of an analyses for each outfall that contains process wastewater or may contain pesticides or herbicides. Report an average and maximum value if more than one analytical result is available.

XX N/A: This facility does not manufacture or formulate pesticides or herbicides.

TABLE B-4

OUTFALL	CONCENTRATION (µg/1)*		NUMBER OF	MAL
POLLUTANT	AVG.	MAX.	SAMPLES	(µg/1)
Aldrin Alpha-hexachlorocyclohexane Beta-hexachlorocyclohexane Carbaryl Chlordane Chlorpyrifos				0.05 0.05 0.05 5 0.15 0.05
2,4-D Danitol				10
4,4'-DDD 4,4'-DDE 4,4'-DDT				0.1 0.1 0.1
Demeton Diazinon Dicofol				0.2 0.5
Dieldrin Diuron				0.1
Endosulfan I (alpha) Endosulfan II (beta) Endosulfan Sulfate				0.1 0.1 0.1
Endrin Gamma - Hexachlorocyclohexane (Lindane)				0.1 0.05
Guthion Heptachlor Heptachlor Epoxide Hexachlorophene				0.10 0.05 1.0
Malathion Methoxychlor Mirex Parathion				0.10 2.0 0.2 0.1
Toxaphene 2,4,5-TP (Silvex)				5 2



11

7. Review the following TABLE B-5 and mark the appropriate column with an "X" if you believe a specific constituent to be present or absent in your discharge. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility and/or previous analyses of your wastewater. You must provide the results of at least one analysis for each constituent believed present. Report an average and maximum value if more than one analytical result is available.

TABLE B-5

OUTFALL 001

POLLUTANT	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION (mg/l) * AVG. MAX	NUMBER OF
Bromide		<u>X</u>	<u> </u>	• 1
Color (PCU)				1
Nitrate-Nitrite(as N)	<u> </u>	<u>X</u>	0.2	1.
Sulfide(as S)		X	< 1	1
Sulfite(as SO ₃)		X X X X	<u> </u>	1
Surfactants	<u> </u>	<u>X</u>	<u> </u>	1
Total Antimony		<u>X</u>	< <u>0.00</u> 5	1
Total Beryllium		<u>X</u>	<u> </u>	
Total Boron	X		<u>0.66</u> 2	1
Total Cobalt		<u>X</u>	<u> </u>	1
Total Iron	$\frac{\overline{x}}{x}$		<u>0.58</u> 2	1
Total Magnesium	<u>X</u>		<u>7.62</u> 7	1
Total Molybdenum		X	<u> </u>	1
Total Manganese		X	<u> </u>	1
Total Thallium		X X X	4 0.01	1
Total Tin		<u>X</u>	<u> </u>	1
Total Titanium	X		0.128	1

* Indicate units if different from mg/l.



8. Table B-6 is a list of primary industrial categories with a breakdown of Gas Chromatography/Mass Spectrometry (GC/MS) testing requirements for Priority Pollutants. Categories are defined in 40 CFR Parts 400 - 471. Check any category(s) that apply to your facility and provide the indicated analysis for Priority Pollutants listed in Table B-6.

TABLE B-6

	Volatile	Acid	Base/Neutral	Pesticide
_ Adhesives and Sealants	Yes	Yes	Yes	No
_ Aluminum Forming	Yes	Yes	Yes	No
Auto and Other Laundries	Yes	Yes	Yes	Yes
Battery Manufacturing	Yes	No	Yes	No
_ Coal Mining	No	No	No	Ν̈́ο
_ Coil Coating	Yes	Yes	Yes	No
Copper Forming	Yes	Yes	Yes	No
Electric and Electronic	Yes	Yes	Yes	Yes
Components				105
_ Electroplating	Yes	Yes	Yes	No
Explosives Manufacturing	No	Yes	Yes	No
Foundries	Yes	Yes	Yes	No
Gum and Wood Chemicals			100	NO
Subparts A,B,C,E	Yes	Yes	No	Мо
Subparts D, F	Yes	Yes	Yes	No
Inorganic Chemicals	Yes	Yes	Yes	No No
Iron and Steel Mfg.	Yes	Yes	Yes	No No
Leather Tanning/Finishing	Yes	Yes	Yes	NO
Mechanical Products Mfg.	Yes	Yes	Yes	
Nonferrous Metals Mfg.	Yes	Yes	Yes	No
Ore Mining(Subpart B)	No	Yes	No	Yes
Organic Chemicals,	Yes	Yes		No
Plastics and Synthetic Fiber		162	Yes	Yes
Paint and Ink Formulation	Yes	Yes	Yes	37
Pesticides	Yes	Yes	Yes	No
Petroleum Refining	Yes	Yes		Yes
Pharmaceutical Preparations	Yes		Yes	No
Photographic Equipment and	Yes	Yes	Yes	No
Supplies		Yes	Yes	No
Plastic Processing	Yes	No	No	No
Porcelain Enameling	No	No	No	No
Printing and Publishing	Yes	Yes	Yes	Yes
Pulp and Paperboard Mills				
Subparts A,B,C,D,R	*	Yes	*	Yes
Subparts F,G,H,I,	Yes	Yes	*	Yes
K, L, M, N, O, P,				
Subparts E,Q,S,T	Yes	Yes	*	Yes
Subparts J,U	Yes	Yes	Yes	*
Rubber Processing	Yes	Yes	Yes	Мо
Soap and Detergent Mfg.	y Yes	Yes	Yes	Мо
Steam Electric Power Plants	Yes	, Yes	Мо	No
Textile Mills (Not Subpart C		Yes	Yes	No
Timber Products Processing	YASIV	Yes	Voc	Yes
Test if "believed present" ()	^Y 例为Y 02	2000		
reac it "pertened bleseur, M				
•	APPLICATION	FF CARRIE		

Table B-7 contains a list of priority pollutants. If you are a primary industry as shown in Table B-6 and process wastewater is discharged, you must analyze for those GC/MS fractions as shown in Table B-7. If you are not a primary industry and if you believe that a specific constituent (except for: acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol) is present in an amount greater than 10 ppb you must provide the results of at least one analysis. If you believe that acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol is present in an amount greater than 100 ppb you must provide results for these chemicals. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility or analysis of your wastewater. Report an average and a maximum value if more than one analytical result is available.

TABLE B-7

OUTFALL 001

CONCENTRATION						
·	(μg,	/1) *	NUMBER OF	MAL		
POLLUTANT	AVG.	MAX.	SAMPLES	$(\mu g/1)$		
		•				
VOLATILE COMPOUNDS	•		•			
Acrolein		< 50	1	50		
Acrylonitrile		< 50	1	50		
Benzene		< 10	1	10		
Bromoform		<u>< 10</u>	<u></u>	10		
Carbon Tetrachloride	<u> </u>	< 10	1_	10		
Chlorobenzene		< 10	1	10		
Chlorodibromomethane		< 10	1	10		
Chloroethane		< 10	1	10		
2-Chloroethylvinyl Ether		< 50 <	1	50		
Chloroform		< 10	<u> </u>	10		
Dichlorobromomethane		< 10	1	10		
1,1-Dichloroethane			1	10		
1,2-Dichloroethane			<u> </u>	10		
1,1-Dichloroethylene		< 10	1	10		
1,2-Dichloropropane		< 10		10		
1,3-Dichloropropylene		< 10	1	10		
Ethylbenzene		< 10		10		
Methyl Bromide		< 20	1	20		
Methyl Chloride		<20		20		
Methylene Chloride		< 20		20		
1,1,2,2-Tetrachloroethane		< 10		10		
Tetrachloroethylene		< 10 ·	1	10		
Toluene		< 10	1	10		
1,2-Trans-Dichloroethylene		< 10	1	10		
1,1,1-Trichloroethane		< 10	, <u> </u>	10		
1,1,2-Trichloroethane		< 10		10 .		
Trichloroethylene		< 10		10		
Vinyl Chloride		< 10		10		

* Indicate units if different from pg/17 F / VED MAY 02 2000

WAS I COUNTY APPLICATION TECHNICAL REPORT PAGE B-9

TABLE B-7 (con't)

OUTFALL 001	CONCENTRATION		
POLLUTANT	(μg/1) * AVG. MAX.	NUMBER OF	MAL
FOULDTANT	AVG. MAX.	SAMPLES	(µg/1)
ACID COMPOUNDS			
2-Chlorophenol	<u><10</u>		10
2,4-Dichlorophenol	<u> </u>	<u> </u>	10
2,4-Dimethylphenol	<u> </u>	<u> </u>	10
4,6-Dinitro-o-Cresol	<u> </u>		50
2,4-Dinitrophenol	<u> </u>	<u> </u>	50
2-Nitrophenol 4-Nitrophenol	<u> </u>	1	20
P-Chloro-m-Cresol	<u> </u>		50
Pentachlorophenol	<u>4 20</u>	1	10
Phenol	<u>- ≤ 50</u> ≤ 10	<u> </u>	50
2,4,6-Trichlorophenol	$\phantom{00000000000000000000000000000000000$	<u> \</u>	10 10
1,1,0 111011010101101		<u> </u>	10
BASE/NEUTRAL COMPOUNDS			
Acenaphthene	<u> </u>	1_	10
Acenaphthylene	< 10_	1	10
Anthracene	<u> < 10</u>	1	10
Benzidine	<u> </u>	<u></u>	50
Benzo(a)Anthracene Benzo(a)Pyrene	<u>< 10</u>		10
3,4-Benzofluoranthene	<u></u>	<u> </u>	10
Benzo(ghi) Perylene	<u> </u>	1_	10 20
Benzo(k) Fluoranthene	<u> </u>	1	10
Bis(2-Chloroethoxy)Methane	< 10	1	10
Bis(2-Chloroethyl)Ether	< 10	1	10
Bis(2-Chloroisopropyl)Ether	<u><10</u>	1	10
Bis(2-Ethylhexyl)Phthalate	<u> < 10</u>	1	10
4-Bromophenyl Phenyl Ether	<u> < 10</u>	1	10
Butylbenzyl Phthalate	<u> < 10</u>	1_	10
2-Chloronaphthalene	<u> </u>	1_	10
4-Chlorophenyl Phenyl Ether	<u> < 10</u>		10
Chrysene	<u> </u>		10
Dibenzo(a,h)Anthracene 1,2-Dichlorobenzene	<u> </u>		20
1,3-Dichlorobenzene	<u> </u>	<u></u>	10
1,4-Dichlorobenzene	<u> </u>	<u> </u>	10 10
3,3-Dichlorobenzidine	<u> </u>	<u></u> 1	50
Diethyl Phthalate	<u>≤10</u>		10
Dimethyl Phthalate		1	10
Di-n-Butyl Phthalate	\[\frac{\leq 10}{\leq 10} \]		10
2,4-Dinitrotoluene	< 10		10
2,6-Dinitrotoluene	<10	1	10
Di-n-Octyl Phthalate	~ 10	1	10
1,2-Diphenyl Hydrazine		11/2	
(as Azobenzene)	<u>< 20</u> ***	FID	20
* Indicate units if differen	t from µg/1 MAY 02	2000	

TABLE B-7 (con't)

		NTRATION g/l)*	NUMBER OF	MAI
POLLUTANT	AVG.	MAX.	SAMPLES	(pe
BASE/NEUTRAL COMPOUNDS (con't)				
Fluoranthene	<u> </u>	<u><10</u>	_ 1	10
Fluorene		< 10 ·		10
Hexachlorobenzene		< 10		10
Hexachlorobutadiene		<u><10</u>		10
Hexachlorocyclopentadiene	·	<u><10</u>	1	10
Hexachloroethane		< 20	1	20
Indeno(1,2,3-cd)pyrene		< 20	1 1 1 1	20
Isophorone		< 10	1_	10
Naphthalene		< 10_	1	10
Nitrobenzene		< 10		10
N-Nitrosodimethylamine		<u>< 20</u>	1	20
N-Nitrosodi-n-Propylamine		<u>< 20</u>	· <u>1</u>	20
N-Nitrosodiphenylamine		<u>< 20</u>		20
Phenanthrene		<u>< 10</u>		10
Pyrene		< <u>10</u>	1	10
1,2,4-Trichlorobenzene		<u><10</u>		10
PESTICIDES N/A				
Aldrin				0.0
alpha-BHC				0.0
beta-BHC				0.0
gamma-BHC				0.0
delta-BHC				0.0
Chlordane				0.1
4,4-DDT				0.1
4,4-DDE				0.1
4,4-DDD				0.1
Dieldrin				0.1
alpha-Endosulfan				0.1
beta-Endosulfan				0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde			· · ·	0.1
Heptachlor Heptachlor Epoxide				0.0
PCB-1242				1.0
PCB-1242 PCB-1254			···	1.0
PCB-1234	-	·		1.0
PCB-1221 PCB-1232				1.0
PCB-1232 PCB-1248				1.0
PCB-1240				1.0
PCB-1230				1.0
Toxaphene				1.0 5.0
Indicate units if different fro	TE.	CEIV		
rudreace dutes it different fro	μάλτ πάλτ	AY 02 2000	e D	

3. Outfalls that contain any wastewater other than storm water (e.g., process wastewater, utility wastewater, domestic wastewater, groundwater, etc.) must complete TABLE B-1. Facilities that utilize land application or evaporation for wastewater treatment/disposal must also provide these analytical results.

TABLE B-1

	INFLUENT		EFFLUE	NT	
	CONCENTRATION	NUMBER	CONCENTR		NUMBER
	(mg/l)	OF	(mg/l		OF
POLLUTANT	AVG. MAX.	SAMPLES	AVG.	MAX.	SAMPLES
BOD (5-day)				3	1
CBOD (5-day)				3	
Chemical Oxygen Demand				19	
Total Organic Carbon				6	1
Ammonia Nitrogen				<u><0.1</u>	1
Total Suspended Solids				_<4	1
Nitrate Nitrogen				42.7	l
Total Organic Nitrogen				1.1	1
Total Phosphorus	•	· .	·	4.0	1
Oil and Grease			<u>< 5</u>	<u> </u>	4
Total Residual Chlorine			*	<0.2	1
Total Dissolved Solids				716	1
Sulfate				41	1
Chloride				166	1_
Fluoride				0.28	1
Fecal Coliform	,		51 cfu/ 100m1	90 cf	1/_ 3*
Temperature(°F)			100mT	100)mI
				INA	
pH (Standard Units; min/m	nax)	EFE	7.0 Min.	8.0 Max	104
pΗ (Standard Units; min/π	nax)	CONCE	FLUENT VTRATION	8.0 Max	104
pΗ (Standard Units; min/π	nax)·	CONCEN (p	FLUENT VTRATION g/l)	8.0 Max	MAL
POLLUTANT	nax)·	CONCE	FLUENT NTRATION g/l) MAX.	8.0 Max NUMBER OF SAMPLES	MAL ug/l
POLLUTANT Total Aluminum	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30	8.0 Max	MAL ug/1 30
POLLUTANT Total Aluminum Total Antimony	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <30	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30
POLLUTANT Total Aluminum	nax)·	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <30 <10	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium	nax)	CONCEN (p	FLUENT NTRATION g/l) MAX. <30 <30 <10 42.3	8.0 Max NUMBER OF SAMPLES	MAL. ug/l 30 30 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <5	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <5 <1	8.0 Max NUMBER OF SAMPLES	MAL. <u>ug/l</u> 30 30 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <30 <10 42.3 <5 <1 <10	8.0 Max NUMBER OF SAMPLES	MAL <u>ug/l</u> 30 30 10 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <5 <1 <10 <10 <10 <10 <10 <10 <10 <10 <10	8.0 Max NUMBER OF SAMPLES	MAL ug/l 30 30 10 10 5
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <55 <1 <10 <10 <10	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium	nax)	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <5 <1 <10 <10 <10 <10 <10 <10 <10 <10 <10	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium		CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <55 <1 <10 <10 <10	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium	e to Chlorination	CONCEN (p	FLUENT NTRATION g/1) MAX. <30 <10 42.3 <55 <1 <10 <10 <10	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable	e to Chlorination	CONCEN (p	FLUENT NTRATION (g/1) MAX. <30 <30 <10 42.3 <5 <1 <10 <10 <10 37.3	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab	e to Chlorination	CONCEN (p	FLUENT NTRATION (g/1) MAX. <30 <30 <10 42.3 <5 <1 <10 <10 <10 37.3	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10 20
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab Total Lead Total Mercury	e to Chlorination	CONCEN (p	FLUENT NTRATION (g/1) MAX. (30) (30) (10) 42.3 (5) (10) (10) (10) 37.3	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10 20 5
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab Total Lead Total Mercury Total Nickel	e to Chlorination le)	AVG.	MAX. (30) (30) (10) 42.3 (5) (1) (10) (1	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 10 10 20 5 0.2
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab Total Lead Total Mercury Total Nickel Total Phenols	e to Chlorination	CONCEN (µ. AVG.	MAX. <30 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10 5 1 10 10 10 10
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab Total Lead Total Mercury Total Nickel Total Phenols Total Selenium	e to Chlorination le)	AVG.	MAX. <30 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10 20 5 0.2 10 20
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab Total Lead Total Mercury Total Nickel Total Phenols Total Selenium Total Silver	e to Chlorination le)	AVG.	MAX. (30) (30) (10) 42.3 (5) (1) (10) (1	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10 20 5 0.2 10 20 20 10 20 20 20 20 20
POLLUTANT Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociab Total Lead Total Mercury Total Nickel Total Phenols Total Selenium	e to Chlorination le)	CONCEN (µ. AVG.	MAX. <30 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	8.0 Max NUMBER OF SAMPLES	MAL ug/1 30 30 10 10 5 1 10 10 20 5 0.2 10 20 10

One sample analysis was omitted due to anomalous results and intermittent nature of discharge. All Fecal samples that for he collected during one grab sample period due to intermittent discharge from the treatment plant and the limited availability of representative samples.

REVISED 12/98 INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT PAGE B-3

TABLE B-2 contains a list of organic compounds included in the Texas Surface Water Quality Standards at 30 TAC 307.6. TABLE B-2 must be completed with the results of an analysis of all pollutants for each outfall that contains process wastewater. In addition, an analysis for each continuously discharging nonprocess outfall (including noncontact cooling water) must be provided for only those pollutants in TABLE B-2 that are used at the facility as a feedstock, intermediate, product, byproduct, coproduct, maintenance chemical or that could in any way contribute to contamination in the wastewater streams.

TABLE B-2

. . . .

OUTFALL 002*	G03/G/I	(41)	\##\DED	147.7
POLLUTANT	CONC. µg/l_AVG	MAX.	NUMBER OF SAMPLES	MAL (µg/l)
Benzene				10
Benzidine				50
Benzo(a)anthracene				10
Benzo(a)pyrene				10
Bis(chloromethyl)ether (*2)				
Carbon Tetrachloride				10
Chlorobenzene				10
Chloroform	····			10
Chrysene				10
Cresols				(*3)
Dibromochloromethane				10
1,2-Dibromoethane			-	2
1,4-Dichlorobenzene				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Fluoride	-	280	1	500
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachloroethane				20
Methyl Ethyl Ketone				50
Nitrobenzene				10
n-Nitrosodiethylamine				20
n-Nitroso-di-n-Butylamine				20
PCB's, Total (*4)				1
Pentachlorobenzene				20
Pentachlorophenol				50
Phenanthrene				10
Pyridine				20
1,2,4,5-Tetrachlorobenzene				20
Tetrachloroethylene				10
Trichloroethylene				10
1,1,1-Trichloroethane		_		10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)	-			10
Vinyl Chloride	-			10

^(*1) Indicate units if different from µg/l.

*Outfall 002 receives only domestic wastewater, not process wastewater. Only one parameter on this table has the potential to be present in NS TEAM the discharge.

^(*2) Hydrolyzes in water. Will not require applicant to analyze at this time. (*3) MAL's for Cresols: p-Chloro-m-Cresol 10 ug/l; 4,6-Dinitro-o-Cresol 50 ug/l;

^(*4) Total of PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

*Outfall 002 receives only domain and the state was a second so pg/...

5.	indi	cator bac	ains testing requirements for the compound "Tributylti; teria "enterococci." Not all applicants are require enterococci. Testing is required only under the followi	d to tack for
	Α.	TRIBUTYL	rin	
		dispose o	vill be required for 1) industrial/commercial facilities of wastewater from the types of operations listed below es which receive wastewater from the types of industrial listed below. Please check all that apply.	OR 2) domestic
		1)	Manufacturers and formulators of tributyltin or rela including, but not limited to SIC code 2879. Testing	ted compounds, required.
		2)	Painting of ships, boats and marine structures, including the SIC code 1721. Testing required.	iding, but not
		3)	Ship and boat building and repairing, including, but not codes 3731, 3732 and 3441. Testing required.	limited to SIC
		4)	Ship and boat cleaning, salvage, wrecking and scaling, not limited to SIC codes 4499 and 7699. Testing requi	including, but red.
	•	5)	Operation and maintenance of marine cargo handling marinas, including, but not limited to SIC codes 4 Testing required.	Eacilities and 491 and 4493.
		6)	Facilities engaged in wood preserving, including, but n SIC code 2491. Testing required.	ot limited to,
		7)	Any other industrial/commercial facility for which tribut to be present, or for which there is any reason to tributyltin may be present in the effluent. Testing re	believe that
		X 8)	None of the above. No testing required.	
	В.	ENTEROCOG	cci	
•		Testing Channel apply.	will be required for all dischargers directly into the (classified stream segment nos. 1006 or 1007). Please	Houston Ship
		1)	Discharge is directly to the Houston Ship Channel (clasegment number 1006 or 1007). Testing required.	ssified stream
		_X 2)	Discharge is <u>not</u> directly to the Houston Ship Channe stream segment number 1006 or 1007). No testing requir	el (classified ed.
	OUTF	Δτ.τ.	TABLE B-3 N/A) 1
	0011		Concentration NUMBER OF	MAL
	POLL	UTANT	AVG. MAX. Units SAMPLES	(µg/1)
	Trib	utyltin		0.010
	Ente	rococci	MAY 0 2 2000	A/N
			MAY 02 2000	

6. TABLE B-4 contains a list of pesticide compounds included in the Texas Surface Water Quality Standards at 30 TAC 307.6. TABLE B-4 must be completed if the facility manufactures or formulates pesticides or herbicides. Complete TABLE B-4 with the results of an analyses for each outfall that contains process wastewater or may contain pesticides or herbicides. Report an average and maximum value if more than one analytical result is available.

X N/A: This facility does not manufacture or formulate pesticides or herbicides.

TABLE B-4

OUTFALL 002 POLLUTANT	N/A AV	CONCENTRA (µg/1)* 3	NUMBER OF SAMPLES	MAL (µg/1)
Aldrin Alpha-hexachlorocyclohexane Beta-hexachlorocyclohexane Carbaryl Chlordane Chlorpyrifos 2,4-D Danitol				0.05 0.05 0.05 5 0.15 0.05
danicol 4,4'-DDD 4,4'-DDE 4,4'-DDT Demeton Diazinon Dicofol Dieldrin				0.1 0.1 0.1 0.2 0.5 20
Diuron Endosulfan I (alpha) Endosulfan II (beta) Endosulfan Sulfate Endrin Gamma - Hexachlorocyclohexane (Lindane)				0.1 0.1 0.1 0.1 0.05
Guthion Heptachlor Heptachlor Epoxide Hexachlorophene Malathion Methoxychlor				0.10 0.05 1.0 10 0.10 2.0 0.2
Mirex Parathion Toxaphene 2,4,5-TP (Silvex)				0.1 5 2

MAY 0 2 2000

APPLICATIONS TEAM

7. Review the following TABLE B-5 and mark the appropriate column with an "X" if you believe a specific constituent to be present or absent in your discharge. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility and/or previous analyses of your wastewater. You must provide the results of at least one analysis for each constituent believed present. Report an average and maximum value if more than one analytical result is available.

TABLE B-5

OUTFALL 002

	BELIEVED	BELIEVED	CONCENTY (mg/l) *	NUMBER OF
POLLUTANT	PRESENT	ADOULT.	Avg.	PIAA.	DRIVE DES
POLLUTANT Bromide Color(PCU) Nitrate-Nitrite(as N Sulfide(as S) Sulfite(as SO ₃) Surfactants Total Antimony Total Beryllium Total Boron Total Cobalt Total Iron Total Magnesium	PRESENT X X X X X X X	X X X X X X X X X X	AVG.	MAX 	
Total Molybdenum		X X X X		<10 ug/1	
Total Manganese		· · ·	-		
Total Thallium		<u>^</u>		<10 ug/1 100 ug/1</td <td></td>	
Total Tin		X			
Total Titanium		<u> </u>		√50 ug/1	

^{*} Indicate units if different from mg/1.

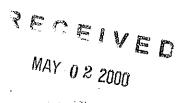


Table B-6 is a list of <u>primary</u> industrial categories with a breakdown of Gas Chromatography/Mass Spectrometry (GC/MS) testing requirements for Priority Pollutants. Categories are defined in 40 CFR Parts 400 - 471. Check any category(s) that apply to your facility and provide the indicated analysis for Priority Pollutants listed in Table B-6. 8.

TABLE B-6

		GC/MS Test	ing Required		
N/A	Volatile	Acid	Base/Neutral	Pesticio	30.5
Adhesives and Sealants	Yes	Yes	Yes	No	les
Aluminum Forming	Yes	Yes	Yes	No	
Auto and Other Laundries	Yes	Yes	Yes	Yes	
Battery Manufacturing	Yes	No	Yes	No	
Coal Mining	No	No	No	No	
Coil Coating	Yes	Yes	Yes	No	
Copper Forming	Yes	Yes	Yes	No	
Electric and Electronic	Yes	Yes	Yes	Yes	
Components					
Electroplating	Yes	Yes	Yes	No	
Explosives Manufacturing	оИ	Yes	Yes	No	
Foundries	Yes	Yes	Yes	No	
Gum and Wood Chemicals					
Subparts A,B,C,E	Yes	Yes	No	No	
Subparts D.F	Yes	Yes	Yes	No	
Inorganic Chemicals	Yes	Yes	Yes	No	
Iron and Steel Mfg.	Yes	Yes	Yes	Ио	
Leather Tanning/Finishing	Yes	Yes	Yes	No	
Mechanical Products Mfg.	Yes	Yes	Yes	No	
Nonferrous Metals Mfg.	Yes	Yes	Yes	Yes	
Ore Mining(Subpart B)	No	Yes	No	No	
Organic Chemicals,	Yes	Yes	Yes	Yes	
Plastics and Synthetic Fibe	rs				
Paint and Ink Formulation	Yes	Yes	Yes	No	
Pesticides	Yes	Yes	Yes	Yes	
Petroleum Refining	Yes	Yes	Yes	No	
Petroleum Refining Pharmaceutical Preparations Photographic Equipment and	Yes	Yes	Yes	No	
Photographic Equipment and	Yes	Yes	Yes	ИО	
Supplies					
Plastic Processing	Yes	ИО	Мо	Ио	
Porcelain Enameling	No	ИО	No	No	
Printing and Publishing	Yes	Yes	Yes	Yes	**
Pulp and Paperboard Mills					
Subparts A,B,C,D,R	*	Yes	*	Yes	
Subparts F,G,H,I,	Yes	Yes	*	Yes	$\frac{\hat{I}}{I}$
K, L, M, N, O, P,					٠,
Subparts E,Q,S,T	Yes	Yes .	*	Yes	
Subparts J,U	Yes	Yes	Yes	*	
Rubber Processing	Yes	Yes	Yes	No	
Soap and Detergent Mfg.	Yes	Yes	Yes	No	
X Steam Electric Power Plants	Yes	Yes	Мо	No	
Textile Mills (Not Subpart		Yes	Yes	No	
Timber Products Processing	Yes	YES	Yes	Yes	
	MUV	0 2 ₂₀₀₀ -	- ************************************		
* Test if "believed present"	"''\T	v z 200a –			
	**************************************	- 🕶			

9. Table B-7 contains a list of priority pollutants. If you are a primary industry as shown in Table B-6 and process wastewater is discharged, you must analyze for those GC/MS fractions as shown in Table B-7. If you are not a primary industry and if you believe that a specific constituent (except for: acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol) is present in an amount greater than 10 ppb you must provide the results of at least one analysis. If you believe that acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol is present in an amount greater than 100 ppb you must provide results for these chemicals. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility or analysis of your wastewater. Report an average and a maximum value if more than one analytical result is available.

TABLE B-7

OUTFALL 002*

(μg/l) * NUMBER OF MAL
VOLATILE COMPOUNDS
Acrolein 50
Acrylonitrile 50
Benzene 10
Bromoform 10
Carbon Tetrachloride 10
Chlorobenzene 10
Chlorodibromomethane 10
Chloroethane 10
2-Chloroethylvinyl Ether 50
Chloroform10
Dichlorobromomethane 10
1,1-Dichloroethane 10
1,2-Dichloroethane 10
1,1-Dichloroethylene 10
1,2-Dichloropropane 10
1,3-Dichloropropylene 10
Ethylbenzene 10
Methyl Bromide 20
Methyl Chloride 20
Methylene Chloride 20
1,1,2,2-Tetrachloroethane
Tetrachloroethylene 10
Toluene10
1,2-Trans-Dichloroethylene 10
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene10
Vinyl Chloride 10

* Indicate units if different from hg/F / /

*Outfall 002 discharges only domestic wastewater, and is not subject to this testing.

WASTEVIATIONS TEAM
TEAM

TABLE B-7 (con't)

OUTFALL 002*				
	CONCENT			
	(µg/		NUMBER OF	LAM
POLLUTANT	AVG.	MAX.	SAMPLES	$(\mu g/1)$
·				
ACID COMPOUNDS				
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol			- 11 - 11 - 1	50
2,4-Dinitrophenol				50
2-Nitrophenol		-		20
4-Nitrophenol				50
P-Chloro-m-Cresol			•	10
Pentachlorophenol		1		50
Phenol				10
2,4,6-Trichlorophenol				10
., ., o				
	1-		4.5	
BASE/NEUTRAL COMPOUNDS				
Acenaphthene				10
Acenaphthylene		<u> </u>		10
Anthracene				10
Benzidine			•	50
Benzo(a) Anthracene				10
Benzo(a) Pyrene				10
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20

Benzo (a) Anchi acciae		 	
Benzo(a) Pyrene			10
3,4-Benzofluoranthene		 	10
Benzo(ghi)Perylene		 <u> </u>	20
Benzo(k) Fluoranthene		 	10
Bis(2-Chloroethoxy)Methane	<u> </u>	 	10
Bis(2-Chloroethyl)Ether		 	10
Bis(2-Chloroisopropyl)Ether			10
Bis(2-Ethylhexyl)Phthalate			10
4-Bromophenyl Phenyl Ether			10
Butylbenzyl Phthalate		 	10
2-Chloronaphthalene		 	10
4-Chlorophenyl Phenyl Ether		 	10
Chrysene			10
Dibenzo(a,h)Anthracene			20
1,2-Dichlorobenzene			10
1,3-Dichlorobenzene		 	10
1,4-Dichlorobenzene		 	10
3,3-Dichlorobenzidine			50
•		 	

10 Diethyl Phthalate Dimethyl Phthalate 10 10 Di-n-Butyl Phthalate 10 2,4-Dinitrotoluene 10 2,6-Dinitrotoluene 10 Di-n-Octyl Phthalate 1,2-Diphenyl Hydrazine (as Azobenzene)

* Indicate units if different francis/
*Outfall 002 discharges only domestic/wastewate/Tend is not subject to
this testing.

REVISED 12/98 INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT PAGE B-10

TABLE B-7 (con't)

OUTFALL 002*

OUTFALL 002"				
	CONCENTRATION			
	(µg.	/1)*	NUMBER OF	MAL
POLLUTANT	AVG.	MAX.	SAMPLES	(µg/1)
				<u> </u>
BASE/NEUTRAL COMPOUNDS (con't)				
Fluoranthene	*********		 	10
Fluorene				10
Hexachlorobenzene				10
Hexachlorobutadiene				10
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				20
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine			" "	20
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene	***************************************			10
Pyrene			•	10
1,2,4-Trichlorobenzene				10
2,2,1 1220120102010		· · · · · · · · · · · · · · · · · · ·		32.0
PESTICIDES N/A				
N/A				
Aldrin				0.05
alpha-BHC				0.05
beta-BHC				0.05
gamma-BHC				0.05
delta-BHC				0.05
Chlordane				0.15
4,4-DDT				0.1
4,4-DDE			***	0.1
4,4-DDD				0.1
Dieldrin		*************************************		0.1
alpha-Endosulfan			***************************************	0.1
beta-Endosulfan		111		0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Endrin Aldehyde				0.1
Heptachlor		***************************************		0.05
Heptachlor Epoxide				1.0
-			1 Pa	1.0
PCB-1242		- 9		1.0
PCB-1254		MAY	exp	
PCB-1221		MAY 022	'00 n —	1.0
PCB-1232			W	1.0
PCB-1248	AF	PLICATION	E-2001-	1.0
PCB-1260		SMOUNT	TIFARA	1.0
PCB-1016			-VINI	1.0
Toxaphene			-11-	5.0

Indicate units if different from µg/l

^{*}Outfall 002 only discharges domestic wastewater and is not subject to this testing.

Outfalls that contain any wastewater other than storm water (e.g., process wastewater, utility wastewater, domestic wastewater, groundwater, etc.) must complete TABLE B-1. Facilities that utilize land application or evaporation for wastewater treatment/disposal must also provide these analytical results.

TABLE B-1

OUTFALL 003 Sample Type	e: GRAB	COMPOSITE X	-		
POLLUTANT BOD (5-day) CBOD (5-day) Chemical Oxygen Demand Total Organic Carbon Ammonia Nitrogen Total Suspended Solids Nitrate Nitrogen Total Organic Nitrogen Total Phosphorus Oil and Grease Total Residual Chlorine Total Dissolved Solids Sulfate Chloride Fluoride Fecal Coliform Temperature(°F) pH (Standard Units; min/ma	INFLUENT CONCENTRATION (mg/l) AVG. MAX.	NUMBER OF SAMPLES	EFFLU CONCENT (mg/AVG.	RATION	NUMBER OF SAMPLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		ग्य य व	LUENT		
			10211		
		CONCENT	TRATION	NUMBER	
			TRATION	NUMBER OF	MAL
POLLUTANT		CONCENT (µg _AVG.	ration /1) _MAX.		MAL ug/l
Total Aluminum		(µg	TRATION /1) <u>MAX.</u> 175	of SAMPLES 1	
Total Aluminum Total Antimony		(µg	MAX. 175 4 30	OF SAMPLES	ug/1 30 30
Total Aluminum Total Antimony Total Arsenic		(µg	MAX. 175 4 30 4 10	of SAMPLES 1	ug/1 30 30 10
Total Aluminum Total Antimony Total Arsenic Total Barium		(µg	MAX. 175 2 30 2 10 366	of SAMPLES 1	ug/1 30 30 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium		(µg	MAX. 175 4 30 4 10 366 4 5	of SAMPLES 1	ug/1 30 30 10 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium		(µg	MAX. 175 430 410 366 45 41	of SAMPLES 1	ug/1 30 30 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium		(µg	MAX. 175 4 30 4 10 366 4 5	of SAMPLES 1	<u>ug/1</u> 30 30 10 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium		(µg	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10	of SAMPLES 1	<u>ug/1</u> 30 30 10 10 5 1
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper		(µg	MAX. 175 430 410 366 45 410 410 410	of SAMPLES 1	ug/l 30 30 10 10 5 1
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable		(µg_AVG.	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10	of SAMPLES 1	ng/l 30 30 10 10 5 1 10 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl		(µg	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10	of SAMPLES 1	99/1 30 30 10 10 5 1 10 10 10 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl		(µg_AVG.	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10	of SAMPLES 1	99/1 30 30 10 10 5 1 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl Total Lead Total Mercury		(µg AVG.	MAX. 175 4 30 4 10 366 4 5 4 10 4 10 4 10 4 10 4 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	of SAMPLES 1	99/1 30 30 10 10 5 1 10 10 10 10
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl	e) . 🦠	MAY 0-2 2000	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10 4 10 4 10 4 10 4 10	of SAMPLES 1	10 10 5 1 10 10 10 10 20 5 0.2
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl Total Lead Total Mercury Total Nickel	e) 🦩	MAY 0-2 2000	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10 4 10 4 10 4 10 4 10	of SAMPLES 1	pg/1 30 30 10 10 10 5 1 10 10 10 10 5 0.2
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl Total Lead Total Mercury Total Nickel Total Phenols	e) 🦩	MAY 0-2 2000	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10 4 10 4 10 4 10 4 10	of SAMPLES 1	<u>ug/1</u> 30 30 10 10 10 5 1 10 10 10 10 10 20 5 0.2
Total Aluminum Total Antimony Total Arsenic Total Barium Total Beryllium Total Cadmium Total Chromium Trivalent Chromium Hexavalent Chromium Total Copper Cyanide, (Total, Amenable or Weak-Acid Dissociabl Total Lead Total Mercury Total Nickel Total Phenols Total Selenium	e) 🦩	(µg AVG.	MAX. 175 4 30 4 10 366 4 5 4 1 4 10 4 10 4 10 4 10 4 10 4 10 4 10	of SAMPLES 1	<u>ug/1</u> 30 30 10 10 10 10 10 10 10 20 5 0.2 10 20 10

*Fecal concentrations highly variable. Intake Maximum concentration was 700 CFU/100 ml, and average intake concentration was 253 CFU/100 ml.

**This Outfall has no pH limitations.

4. TABLE B-2 contains a list of organic compounds included in the Texas Surface Water Quality Standards at 30 TAC 307.6. TABLE B-2 must be completed with the results of an analysis of all pollutants for each outfall that contains process wastewater. In addition, an analysis for each continuously discharging nonprocess outfall (including noncontact cooling water) must be provided for only those pollutants in TABLE B-2 that are used at the facility as a feedstock, intermediate, product, byproduct, coproduct, maintenance chemical or that could in any way contribute to contamination in the wastewater streams.

TABLE B-2

OUTFALL 003			
	CONC. µg/l	(*1)	NUMBER OF MAL
POLLUTANT	AVG.	MAX.	SAMPLES (µg/1)
Dangana		<10	1 10
Benzene		<50	1 50
Benzidine		<10	
Benzo(a) anthracene			
Benzo(a) pyrene		<10	
Bis(chloromethyl)ether (*2)		<u><10</u>	
Carbon Tetrachloride		<u></u>	_1 10
Chlorobenzene		<u> </u>	_110
Chloroform		<u><10</u>	1 10
Chrysene		_<10	<u> </u>
Cresols		<u>ND</u> <10	(*3)
Dibromochloromethane .			10
1,2-Dibromoethane		< 2	12
1,4-Dichlorobenzene		<u>_<10</u>	1 10
1,2-Dichloroethane		<u>_<10_</u>	110
1,1-Dichloroethylene		<u><10</u>	110
Fluoride		<u> 390 </u>	<u> </u>
Hexachlorobenzene		<u><10</u>	1 10
Hexachlorobutadiene		<10	1 10
Hexachloroethane		<20	1 20
Methyl Ethyl Ketone		< 50	1 50
Nitrobenzene	<u> </u>	<u><10</u>	1 10
n-Nitrosodiethylamine		<20	1 20
n-Nitroso-di-n-Butylamine		<20	1 20
PCB's, Total (*4)		<1	1 1
Pentachlorobenzene		< 20	1 20
Pentachlorophenol		<u><50</u>	1 50
Phenanthrene		<10	1 10
Pyridine		<20	1 20
1,2,4,5-Tetrachlorobenzene		< 20	1 20
Tetrachloroethylene		<10	1 10
Trichloroethylene		<10	1 10
1,1,1-Trichloroethane		$\frac{10}{10}$	1 10
2,4,5-Trichlorophenol		<u><50</u>	1 50
TTHM (Total Trihalomethanes)	 	<10	1 10
		<10	1 10
Vinyl Chloride			

(*1) Indicate units if different from $\mu g/1$.

(*2) Hydrolyzes in water. Will not require applicant to analyze at this time.

(*3) MAL's for Cresols: p-Chloro-m-Cresol 10 μg/l; 4,6-Dinitro-o-Cresol 50 μg/l;

p-Cresol 10 µg/l (*4) Total of PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016.

APPLICATIONS TERMITS

11

A.	TRIBUTYL	rin	
	dispose o	vill be required for 1) industrial/commercial facilities of wastewater from the types of operations listed below es which receive wastewater from the types of industrial listed below. Please check all that apply.	OR 2) dom
	1)	Manufacturers and formulators of tributyltin or relatinglying, but not limited to SIC code 2879. Testing	
	2)	Painting of ships, boats and marine structures, incl limited to SIC code 1721. Testing required.	uding, bu
	3)	Ship and boat building and repairing, including, but not codes 3731, 3732 and 3441. Testing required.	limited t
	4)	Ship and boat cleaning, salvage, wrecking and scaling, not limited to SIC codes 4499 and 7699. Testing requ	
	5)	Operation and maintenance of marine cargo handling marinas, including, but not limited to SIC codes of Testing required.	facilities 1491 and
	6)	Facilities engaged in wood preserving, including, but a SIC code 2491. Testing required.	not limite
	⁷ }	Any other industrial/commercial facility for which tributo be present, or for which there is any reason to tributyltin may be present in the effluent. Testing	o believe
	<u>X</u> 8)	None of the above. No testing required.	
в.	ENTEROCO	cci	
	Testing Channel apply.	will be required for all dischargers directly into th (classified stream segment nos. 1006 or 1007). Please	e Houston check all
	1)	Discharge is directly to the Houston Ship Channel (clasegment number 1006 or 1007). Testing required.	assified s
	<u>X</u> 2)	Discharge is <u>not</u> directly to the Houston Ship Chanr stream segment number 1006 or 1007). No testing requi	nel (class .red.
		TABLE B-3 N/A	
OUT	FALL	Concentration NUMBER OF	MAL
POL	LUTANT	AVG. MAX. Units SAMPLES	(µg/l)
Tri	butyltin	MAY 0 2 2000	0.010

6. TABLE B-4 contains a list of pesticide compounds included in the Texas Surface Water Quality Standards at 30 TAC 307.6. TABLE B-4 must be completed if the facility manufactures or formulates pesticides or herbicides. Complete TABLE B-4 with the results of an analyses for each outfall that contains process wastewater or may contain pesticides or herbicides. Report an average and maximum value if more than one analytical result is available.

 \underline{X} N/A: This facility does not manufacture or formulate pesticides or herbicides.

TABLE B-4 N/∆

OUTFALL 003 POLLUTANT	N/A	CONCENTRATION (µg/1)* AVG. MAX	OF	MAL (µg/l)
				(129/11
Aldrin				0.05
Alpha-hexachlorocyclohexane				0.05
Beta-hexachlorocyclohexane				0.05
Carbaryl	-			5
Chlordane				0.15
Chlorpyrifos				0.05
2,4-D				10
Danitol				
4,4'-DDD				0.1
4,4'-DDE				0.1
4', 4'-DDT				0.1
Demeton			·	0.2
Diazinon				0.5
Dicofol				20
Dieldrin				0.1
Diuron				
Endosulfan I (alpha)				0.1
Endosulfan II (beta)			·	0.1
Endosulfan Sulfate				0.1
Endrin				0.1
Gamma - Hexachlorocyclohexane				0.05
(Lindane)			······································	
Guthion				0.10
Heptachlor				0.05
Heptachlor Epoxide				1.0
Hexachlorophene				10
Malathion	•			0.10
Methoxychlor				2.0
Mirex				0.2
Parathion				0.1
Toxaphene				5
2,4,5-TP (Silvex)				2



7. Review the following TABLE B-5 and mark the appropriate column with an "X" if you believe a specific constituent to be present or absent in your discharge. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility and/or previous analyses of your wastewater. You must provide the results of at least one analysis for each constituent believed present. Report an average and maximum value if more than one analytical result is available.

TABLE B-5

OUTFALL 003

POLLUTANT	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION (mg/l) * AVG. MAX	NUMBER OF SAMPLES
Bromide Color(PCU) Nitrate-Nitrite(as Sulfide(as S) Sulfite(as SO ₃) Surfactants Total Antimony Total Beryllium Total Boron Total Cobalt Total Iron Total Iron Total Magnesium Total Molybdenum Total Manganese Total Tiallium Total Tin	X X ——————————————————————————————————	X		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IOCAL IICAIIIA				

^{*} Indicate units if different from mg/l.

MAY 02 2000
WAS LEVIATER PERMIT

1.3

8. Table B-6 is a list of primary industrial categories with a breakdown of Gas Chromatography/Mass Spectrometry (GC/MS) testing requirements for Priority Pollutants. Categories are defined in 40 CFR Parts 400 - 471. Check any category(s) that apply to your facility and provide the indicated analysis for Priority Pollutants listed in Table B-6.

TABLE B-6

<u>.</u>		GC/MS Test	ing Required	
N/A				
	<u>Volatile</u>	Acid	Base/Neutral	<u>Pesticides</u>
Adhesives and Sealants	Yes	Yes	Yes	No
Aluminum Forming	Yes	Yes	Yes	No
Auto and Other Laundries	Yes	Yes	Yes	Yes
Battery Manufacturing	Yes	No	Yes	No
Coal Mining	No	No	No	No
Coil Coating	Yes	Yes	Yes	No
Copper Forming	Yes	Yes	Yes	Мо
Electric and Electronic	Yes	Yes	Yes	Yes
Components	¥	1.		
Electroplating	Yes	Yes	Yes	Мо
Explosives Manufacturing	"Ио	Yes	Yes	No
Foundries	Yes	Yes	Yes	No
Gum and Wood Chemicals	W	1.5		
Subparts A,B,C,E	Yes	Yes	No 	No
Subparts D,F	Yes	Yes	Yes	No
Inorganic Chemicals	Yes	Yes	Yes	No
Iron and Steel Mfg.	Yes	Yes	Yes	No
Leather Tanning/Finishing	Yes	Yes	Yes	No
Mechanical Products Mfg.	Yes	Yes	Yes	No
Nonferrous Metals Mfg.	Yes	Yes	Yes	Yes
Ore Mining(Subpart B)	No	Yes	No	No
Organic Chemicals,	Yes	Yes	Yes	Yes
Plastics and Synthetic Fibe Paint and Ink Formulation	Yes	V = =	17	
Pesticides	Yes	Yes	Yes	No
	Yes	Yes	Yes	Yes
Petroleum Refining Pharmaceutical Preparations		Yes	Yes	No
	Yes	Yes	Yes	No
Photographic Equipment and Supplies	ies	Yes	Yes	Ио
Plastic Processing	Yes	ИО	No	No
Porcelain Enameling	No	No	No	No
Printing and Publishing	Yes	Yes	Yes	Yes
Pulp and Paperboard Mills				
Subparts A,B,C,D,R	*	Yes	*	Yes
Subparts F,G,H,I,	Yes	Yes	*	Voc
K, L, M, N, O, P,				103
Subparts E,Q,S,T	Yes	Yes	*	Yes
Subparts J,U	Yes	Yes	Yes	*
Rubber Processing	Yes	Yes	Yes	No
Soap and Detergent Mfg.	Yes 🎺	Yes	Yes	No
X Steam Electric Power Plants		75 34	a No	No
Textile Mills (Not Subpart				No
Timber Products Processing	Yes	MayYes	Yes	Yes
		MAYYes	?nno ·	
* Test if "believed present"	WAS	ligania n	- - 00U	
	$AP_{\tilde{F}}$	LICATER F	in the second	
		LICATIONS	TEMITS	
			. ~ · · · · · · · · · · · · · · · · · ·	

Table B-7 contains a list of priority pollutants. If you are a primary industry as shown in Table B-6 and process wastewater is discharged, you must analyze for those GC/MS fractions as shown in Table B-7. If you are not a primary industry and if you believe that a specific constituent (except for: acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol) is present in an amount greater than 10 ppb you must provide the results of at least one analysis. If you believe that acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol is present in an amount greater than 100 ppb you must provide results for these chemicals. Base your determination on your knowledge of raw materials, maintenance chemicals, intermediates, and products handled at your facility or analysis of your wastewater. Report an average and a maximum value if more than one analytical result is available.

TABLE B-7

OUTFALL 003

	CONCENT	RATION	. •	
	(µg,	/1)*	NUMBER OF	MAL
POLLUTANT	AVG.	MAX.	SAMPLES	(µg/1)
VOLATILE COMPOUNDS			are.	
VOLATILE COMPOUNDS	•			
Acrolein		<u><50</u>	1	50
Acrylonitrile	***************************************	<u><50</u>	1_	50
Benzene		<u><10 </u>		10
Bromoform		<u><10</u>		10
Carbon Tetrachloride		<u><10 </u>	1_	10
Chlorobenzene		<u><10 </u>		10
Chlorodibromomethane		<u><10 </u>	1	10
Chloroethane		<u> </u>	1	10
2-Chloroethylvinyl Ether	<u> </u>	<u><50</u>		50
Chloroform		<u> </u>		10
Dichlorobromomethane		<u><10</u>	1	10
1,1-Dichloroethane		≤10	1	10
1,2-Dichloroethane		<u><10</u>	1	10
1,1-Dichloroethylene		<u><10</u>	_1_	10
1,2-Dichloropropane		<u><10</u>		10
1,3-Dichloropropylene		<u><10 </u>		10
Ethylbenzene		<u><10</u>		10
Methyl Bromide		<u><20 </u>	1	20
Methyl Chloride		<u>≤20</u>		20
Methylene Chloride	-	<20	<u> </u>	20
1,1,2,2-Tetrachloroethane		<10	1	10
Tetrachloroethylene		<u><10 </u>	1	10
Toluene		<u><10 </u>	_1_	10
1,2-Trans-Dichloroethylene		<10	_1_	10
1,1,1-Trichloroethane		<u><10 </u>	1_	10
1,1,2-Trichloroethane		<u><10</u>	1_	10
Trichloroethylene		≤10	1_	10
Vinyl Chloride	-	<u><10</u>		10

MAY 02 2000 WAS I ENWITCH PERMITS
APPLICATIONS TENTES

TABLE B-7 (con't)

OUTFALL 003	LE B-7 (cc	,,,, -, C)		
OUTPALL 003	CONCEN	TRATION		
		r/1) *	NUMBER OF	MAL
POLLUTANT	AVG.	MAX.	SAMPLES	(µg/1)
FOLIIO FANT			OTATA BEIG	<u>(H9/1)</u>
ACID COMPOUNDS				
2-Chlorophenol		<10	1_	10
2,4-Dichlorophenol		<10	1	10
2,4-Dimethylphenol		<u><10</u>	1	10
4,6-Dinitro-o-Cresol		<u>≺50</u>	1	50
2,4-Dinitrophenol		<u><50</u>		50
2-Nitrophenol		· <u><20</u>	1	20
4-Nitrophenol		<u><50</u>	1	50
P-Chloro-m-Cresol		<u><10 </u>	1_	10
Pentachlorophenol		<u>≺50</u> _	1_	50
Phenol		<u> </u>		10
2,4,6-Trichlorophenol		<u>≺10</u>		10
		-	- 	
BASE/NEUTRAL COMPOUNDS N	/A			
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				10
Benzo(a) Pyrene			* ***	10
3,4-Benzofluoranthene	***************************************			10
Benzo(ghi)Perylene			· · · · ·	20
Benzo (k) Fluoranthene		•		10
Bis (2-Chloroethoxy) Methane				10
Bis (2-Chloroethyl) Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate	• • • •			10
4-Bromophenyl Phenyl Ether				10
Butylbenzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl Phenyl Ether				10
Chrysene				10
Dibenzo(a,h)Anthracene				20
1,2-Dichlorobenzene				10
1,3-Dichlorobenzene				10
1,4-Dichlorobenzene				10
3,3-Dichlorobenzidine				50
J,3-Dichiorobenzidine Diethyl Phthalate				10
_				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene			<u></u>	10
2,6-Dinitrotoluene		Star Atta	•••	10
Di-n-Octyl Phthalate		The state of the s	9	7.0
1,2-Diphenyl Hydrazine		MAY 02	'VEN	20
(as Azobenzene)		12		4. U

DUTFALL 003		TRATION			
OF FIRMANIA		J/1) *	NUMBER OF	MAL	
POLLUTANT	AVG.	MAX.	SAMPLES	(µg/	
BASE/NEUTRAL COMPOUNDS (con	n't) N/A				
Fluoranthene				10	
Tluorene				10	
łexachlorobenzene		<u> </u>	<u></u>	10	
Mexachlorobutadiene			<u></u>	10	
Yexachlorocyclopentadiene			<u> </u>	10	
Mexachloroethane				20	
Indeno(1,2,3-cd)pyrene				20	
Isophorone			<u></u>	10	
Japhthalene				10	
Vitrobenzene				10	
-Nitrosodimethylamine				20	
-Nitrosodi-n-Propylamine				20	
-Nitrosodiphenylamine				20	
Phenanthrene				10	
Pyrene				10	
.,2,4-Trichlorobenzene	<u> </u>		***	10	
27.64				10	
PESTICIDES N/A					
Aldrin				0.05	
alpha-BHC				0.05	
eta-BHC				0.05	
gamma-BHC				0.05	
lelta-BHC				0.05	
Chlordane	.		****	0.15	
4,4-DDT				0.1	
4,4-DDE				0.1	
4,4-DDD			<u></u>	0.1	
Dieldrin	·			0.1	
llpha-Endosulfan				0.1	
eta-Endosulfan				0.1	
Endosulfan Sulfate	<u></u>			0.1	
Endrin				0.1	
Endrin Aldehyde				0.1	
leptachlor -				0.05	
Teptachlor Epoxide				1.0	
PCB-1242	 			1.0	
PCB-1254				1.0	
PCB-1221				1.0	
PCB-1232				1.0	
PCB-1248				1.0	
PCB-1260			•	1.0	
PCB-1016				1.0	
Toxaphene		No.		5.0	
		<u></u> '	2 2000	٥.٠	
Indicate units if different	t from µg/l	11/100	en.		

- 10. Under certain conditions, the applicant may be responsible for providing analyses of the effluent from its process wastewater outfalls for Dioxin/Furan compounds. Please review the conditions below and proceed as instructed. The applicant is required to report that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) may be discharged if the applicant 1) knows or has reason to believe that TCDD or any congeners of TCDD will or may be present in the effluent or 2) uses or manufactures one of the following compounds:
 - Please review the following compounds. Check those compounds which are manufactured and/or used in a process at the facility. Also provide a brief description of the conditions of its/their presence at the facility and then proceed to Item No. 10b. If none, then check N/A and proceed to Item No. 10b.

X	N/A
	2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CAS #93-76-5
	2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CAS #93-72-1
	2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CAS #136-25-4
	0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CAS #299-84-3
-	2,4,5-trichlorophenol (TCP) CAS #95-95-4
	Hexachlorophene (HCP) CAS #70-30-4

If you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent then give a brief description of the conditions for its presence below and then proceed to Item No. 10c below. If you do not have any reason to believe that TCDD may be present in your effluent then check N/A and proceed to Item No. 10c below.

X N/A

If you checked N/A in both Item Nos. 10a and 10b above, then proceed to Item No. 11. Otherwise you must complete one analysis of a composite sample of each process wastewater outfall for Dioxin/Furan compounds. An additional sample of sludge from the wastewater treatment system must also be analyzed. The samples shall be analyzed and reported for congeners of chlorinated dibenzo-p-dioxins and dibenzofurans and also reported as toxicity equivalents (TEQ) based on the relative toxic equivalence factors provided in Interim Procedures for Estimating Risks Associated with Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDD's and CDF's) and 1989 Update, EPA/625/3-89/016, March 1989. TABLE 7 is provided to report the results of the congeners listed below in parts per quadrillion (ppq) for wastewater and parts per trillion (ppt) in per quadrillion (ppq) for wastewater and parts for a sludges. The analyses should be madewasting EPA method 1613 or an equivalent method if approved by the TNRCC 02 2000

WAS LEVELTEN PERMITS

TABLE B-8

		TVDI	D-0			
Outfall		Waste	water	Sludg	•	
Compound		Concen-	Equiva-	Concen-		
·	Equivalent	tration	lents	tration		MAL
	Factors	(ppq)	(ppq)	(ppt)	(ppt)	(ppq)
	1400010	,FF41,	(PP4)	(PPC)	(ppc)	(Ppdd)
2,3,7,8-TCDD	1.					10.0
1,2,3,7,8-PeCDD	0.5					50.0
2,3,7,8-HxCDDs	0.1	-			-	50.0
2,3,7,8-TCDF	0.1		-	·		10.0
1,2,3,7,8-PeCDF	0.05			-		50.0
2,3,4,7,8-PeCDF	0.5					50.0
2,3,7,8-HxCDFs	0.1					50.0
2,3,,,0 1210212						50.0
Total						
,						
EXAMPLE:						
Compound		Concen-	Equiva-			
	Equivalent	tration	lents	•		
	Factors	(ppq)	(pgq)			
2,3,7,8-TCDD	1	13	13			
1,2,3,7,8-PeCDD	0.5	22	11			
2,3,7,8-HxCDDs	0.1	17	1.7			
2,3,7,8-TCDF	0.1	20	2		•	
1,2,3,7,8-PeCDF	0.05	100	5			
2,3,4,7,8-PeCDF	0.5	120	60			
2,3,7,8-HxCDFs	0.1	100	10			
•						
Total TEQ			102.7			

Test methods utilized must be sensitive enough to quantify the constituents at the Minimum Analytical Level (MAL) specified.



11.	a.	Frease	answer	tne	corrowing	questions	and	proceed	as	directed.	

Are there pollutants listed in Attachment H of this application which are believed present in the discharge?

YES	NO	X

Are there pollutants listed in Item No. 3.c. on Page No. 2 of the Industrial Wastewater Permit Application Technical Report which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

If NO to both questions then go to Item No. 12 of this attachment.

If YES to either question then proceed as directed below.

b. Table B-9 must be completed for pollutants listed in ATTACHMENT H and for pollutants related to materials handled on-site (raw materials, intermediate products, products, etc., as listed in Item No. 5 on Page No. 2 of the Industrial Wastewater Permit Application Technical Report), which are believed to be present in a wastewater discharge.

For analytical results that are non-detect, please report the analytical values as less than the detection level (example: a result that is non-detect with a detection level of 50 ug/l should be reported as "< 50 ug/l").



Number Avg Max of Analytical Method Avg Max of Analytical Method Method Max of Analytical Method Method Method Max of Analytical Method	Outfall <u>N/A</u>				
Pollutant & CAS Number ug/1 ug/1 Samples Method				Number	
Pollutant & CAS Number ug/1 ug/1 Samples Method	•	Avg	Max	of	Analytical
	Pollutant & CAS Number		ug/l		
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
			-		
			· · · · · · · · · · · · · · · · · · ·		
MAY 02 22	•		•		
MAY 02 22					
MAY 02 22					
MAY 02 22	•				
MAY 02 22				***************************************	
MAY 02 22					
MAY 02 22					
MAY 02 22				.•	
MAY 0 2 30			·	-	
MAY 0 2 30					
MAY 0 2 30	•				
MAY 0 2 30					
MAY 0 2 30					
MAY 0 2 30					
MAY 0 2 30		C.			
MAY 0 2 30			<u> </u>		-
MAY 0 2 30					
MAY 0 2 30					
MAY 0 2 30					
MAY 0 2 30					
MAY 0 2 30		•			
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20				***************************************	
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					,
MAY 0 2 20					•
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					
MAY 0 2 20					·
MAY 0 2 20					<u></u> _
MAY 0 2 20					
MAY 0 2 200				· · · · · · · · · · · · · · · · · · ·	
			<u></u>		
"" # # 2 pp			A	L	ž.
WAS A 2000			-	"" (12 22	
water the second of the second			Ata.	~ < Z000	
ADON'S MALL			ADOLE		

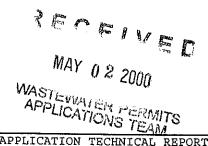
12. Table B-10 must be completed for all outfalls which discharges only storm water runoff associated with "industrial activity" and are not regulated by a multi-sector general storm water permit (please refer to Attachment K for specific guidance). The discharge must be sampled and analyzed for the following pollutants at least once by grab sample during the first 30 minutes or once by a flow weighted composite sample if equipment is available for compositing by flow:

TABLE B-10

0-45-13 N/A	MAXIMUM VA	LUES (mg/l)	AVERAGE VA	LUES (mg/l)	<u>.</u>
Outfall N/A	Grab Sample Taken	Flow	Grab Sample Taken	: Flow	Number of
	During	Weighted	During	Weighted	Storm
Pollutant	First 30 Minutes	Composite Sample	First 30 Minutes	Composite Sample	Events
		-	MINGLES	Sampre	Sampled
Oil and Grease Biochemical Oxygen	· · · · · · · · · · · · · · · · · · ·	N/A			
Demand (BOD5) Chemical Oxygen					
Demand					
Total Organic Carbon					
Total Suspended Solids			•		
Total Dissolved		 .			
Solids Total Kjeldahl					
Nitrogen					
Nitrate plus Nitrite Nitrogen					
withite withogen		-			
Ammonia Nitrogen					
Total Phosphorus			- · · · · · · · · · · · · · · · · · · ·		
pH (Standard Units)				_	
	Min	Max	Min	Max	•
	MAXIMUM VAL	UES (µg/l)	AVERAGE VAL	UES (µg/l)	MAL
		N/A			µg/l
Total Aluminum					30.0
Total Arsenic					10.0
Total Barium					10.0
Total Cadmium					1.0
Total Chromium					10.0
Trivalent Chromium					N/A
Hexavalent Chromium					10.0
Total Copper		<u> </u>			10.0
Total Lead					5.0
Total Mercury	***************************************				0.2
Total Nickel					10.0
Total Selenium	<u>-</u>				10.0
Total Silver					2.0
Total Zinc			The last two	·	5.0
				TTE	
•			MAV.	77	
			MAY 02	? 20na	
		1,	VASTEVIOLE	- V U	
			NASTEVIALES APPLICATION	PERMITS	

- 13. Table B-11 must be completed for every outfall which discharges only storm water runoff associated with "industrial activity" and is not regulated by a multi-sector general storm water permit (please refer to Attachment K for specific guidance). Each discharge must be sampled and analyzed for the following pollutants at least once by grab sample during the first 30 minutes or once by a flow weighted composite sample if equipment is available for composting by flow. Do not include those pollutants listed previously in TABLE B-10.
 - a. Include each pollutant that is limited in a USEPA Effluent Guideline to which the facility is subject (40 CFR Part 400 471) except those for which the monitoring frequency is less than once per month.
 - b. Include each pollutant that is limited in an existing TNRCC, NPDES, and/or TPDES permit for process water for the facility except those for which the monitoring frequency is less than once per month.
 - c. Include each pollutant from TABLES B-2, B-3, and B-4 that is used at the facility as a feedstock, intermediate, product, coproduct, byproduct, maintenance chemical or that could in any way contribute to contamination of storm water runoff.
 - d. Include each pollutant from TABLES B-5, B-7, B-8, and B-9, and ATTACHMENT H that you know or have reason to believe is present in outfalls containing only storm water runoff.
 - (1) For pollutants listed from TABLE B-5, either report quantitative data from the analysis of a grab sample or a flow weighted composite sample or briefly describe the reasons the pollutant is expected to be discharged.
 - (2) For pollutants listed from TABLE B-7 (except for: acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4,6 dinitrophenol) that are expected to be discharged in concentrations of 10 ppb or greater, you must submit quantitative data from the analysis of at least one grab sample or one flow weighted composite sample.
 - (3) For acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4,6 dinitrophenol, you must submit quantitative data if any of these four pollutants is expected to be discharged in concentrations of 100 ppb or greater.
 - (4) For every pollutant listed from TABLE B-7 expected to be discharged in concentrations greater than 10 ppb (or 100 ppb for the four pollutants listed above) you must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged.
 - (5) For pollutants listed from ATTACHMENT H, explain why the pollutant is believed to be present and report any analytical data that you have. No additional analysis is required.

N/A



Ŋ

TABLE B-11

	AV MUMIKAM	LUES (mg/l)	AVERAGE VAL	UES (mg/l)	
Outfall N/A	Grab Sample Taken During First 30	Flow Weighted Composite	Grab Sample Taken During First 30	Flow Weighted Composite	Number of Storm Events
Pollutant	Minutes	Sample	Minutes	Sample	Sampled
With the second decision of the second decisi		<u> </u>		···	
			-		
					
V			·		
		· · · · · · · · · · · · · · · · · · ·	٠.		
		·			

		A			
					-

		-			
					
			7		
				VEN	
			MAY 0 2 20 STEVANT	₩	•
		NA AF	STEVNATER PE PLICATIONS T	RMITS	

Ple max	ease provide the following data for the storm event(s) which resulted in the cimum values for the flow weighted composite sample:
а.	Date of storm event: N/A
b.	Duration of storm event(in minutes): N/A
c.	Total rainfall during storm event (in inches): N/A
đ.	Number of hours between beginning of storm measured and end of previous measurable rain event:
e.	Maximum flow rate during rain event (gallons/minute): N/A
£.	Total storm water flow from rain event (in gallons): N/A
g.	Provide a description of the method of flow measurement or estimate: N/A
g.	

RECEIVED MAY 02 2000 REVISED 12/98 INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT PAGE B-19 iJ

MINIMUM ANALYTICAL LEVELS FOR APPLICATION SCREENING

POLLUTANT	CASRN*	MAL µg/l	Suggested Method
Aldrin	309-00-2	0.05	608
Alphahexachlorocyclohexane	319-84-6	0.05	608
Aluminum	7429-90-5	30	202.2
Arsenic	7440-38-2	10	206.2
Barium	7440-39-3	10	208.2
Benzene	71-43-2	10	624
Benzidine	92-87-5	50	625
Benzo [a] anthracene	56-55-3	10	625
Benzo [a] pyrene	50-32-8	10	625
Betahexachlorocyclohexane	319-85-7	0.05	608 -
Bis(chloromethyl)ether	542-88-1	**	**
Cadmium	7440-43-9	1.	213.2
Carbon Tetrachloride	56-23-5	10	624
Carbaryl	63-25-2	5	632
Chlordane	57-74-9	0.15	608
Chlorobenzene	108-90-7	10	624
Chloroform	67-66-3	10	624
Chloropyrifos	2921-88-2	0.05	1657
Chromium	7440-47-3	10	218.2
Hexavalent Chromium	7440-47-3	10	218.4
Trivalent Chromium	7440-47-3	***	***
p-Chloro-m-Cresol	59-50-7	10	625
4,6-Dinitro-o-Cresol	534-52-1	50	625
p-Cresol	106-44 5 7 7	10	625
Copper	7440-50-8	100/	220.2
Chrysene	218-01-ЙДү	0 5 00	625
Total Cyanide	57-12-5	0 2 2000	335.2

APPLICATIONS TEAM

POLLUTANT	casrn*	MAL µg/l	Suggested Method
Cyanide, Amenable to Chlorination	57-12-5	20	335.1
Cyanide, Weak Acid Dissociable	57-12-5	20	4500-CN I.
4,4'-DDD	72-54-8	0.1	608
4,4'-DDE	72-55-9	0.1	608
4,4'-DDT	50-29~3	0.1	608
2,4-D	94-75-7	1.0	615
Danitol	39515-41-8	***	****
Demeton	8065-48-3	0.20	1657
Diazinon	333-41-5	0.5	1657
Dibromochloromethane	124-48-1	10	624
1,2-Dibromoethane	106-93-4	2	618
Dieldrin	60-57-1	0.1	608
1,4-Dichlorobenzene	106-46-7	10	625
1,2-Dichloroethane	107-06-2	10	624
1,1-Dichloroethylene	75-35-4	10	624
Dicofol	115-32-2	20	617
Dioxins/Furans (TCDD Equivalents) 2,3,7,8-TCDD 1,2,3,7,8-PeCDD 2,3,7,8-HxCDDs 1,2,3,4,7,8-HxCDD 1,2,3,7,8-HxCDD 1,2,3,7,8-PeCDF 2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	1746-01-6 40321-76-4 39227-28-6 57653-85-7 19408-74-3 51207-31-9 57117-41-6 57117-31-4 70648-26-9 57117-44-9 72918-21-9 60851-34-5	10 ⁻⁵ or ppq 50 50 50 50 50 50 50 50 50	1613
Endosulfan I (Alpha)	115-29-7	0.1	608
Endosulfan II (Beta)	115-29-7	0.1	608
Endosulfan sulfate	1031-07-8	0.1	608
Endrin	72-20-8	0.1	608
Fluoride	16984488	500	340.3
Gammahexachlorocyclohexane (Lindane)	58-89-9 🖔 🐔	C 9205	608

POLLUTANT	CASRN*	MAL µg/1	Suggested Method
Guthion	86-50-0	0.1	1657
Heptachlor	76-44-8	0.05	608
Heptachlor Epoxide	1024-57-3	1.0	608
Hexachlorobenzene	118-74-1	10	625
Hexachlorobutadiene	87-68-3	10	625
Hexachloroethane	67-72-1	20	625
Hexachlorophene	70-30-4	10	604.1
Lead	7439-92-1	5.0	239.2
Malathion	121-75-5	0.1	1657
Mercury	7439-97-6	0.2	245.1
Methoxychlor	72-43-5	2.0	617
Methyl Ethyl Ketone	78-93-3	50	624
Mirex	2385-85-5	0.2	617
Nitrate-Nitrogen	14797-55-8	1000	352.1
Nickel	7440-02-0	10	249.2
Nitrobenzene	98-95-3	10	625
N-Nitrosodiethylamine	55-18-5	20	625
N-Nitroso-di-n-Butylamine	924-16-3	20	625
Parathion	56-38-2	0.1	1657
Pentachlorobenzene	608-93-5	20	625
Pentachlorophenol	87-86-5	50	625
Phenanthrene	85-01-8	10	625
Polychlorinated Biphenyls (PCBs) PCB-1232 PCB-1242 PCB-1254 PCB-1221 PCB-1248 PCB-1260 PCB-1016	1336-36-3 1336-36-3 1336-36-3 1336-36-3 1336-36-3 1336-36-3	1.0 1.0 1.0 1.0 1.0 1.0	608
Pyridine	110-86-1	20	625
Selenium	7782-49-2	10.0	270.2
Silver	7440-22-4	2.0	272.2
1,2,4,5-Tetrachlorobenzene	95-94-3	20	625
Tetrachloroethylene	127-18-4 WZIV	10 6	624

MAY 0 2 2000

APPLICATIONS TEAM

- * Chemical Abstracts Service Registry Number
- ** Hydrolyzes in water. Will not require applicant to analyze at this time.
- *** Trivalent Chromium (Cr) determined by subtracting Hexavalent Cr from Total Cr.
- **** EPA procedure not approved. Will not require applicant to analyze at this time.



1

ATTACHMENT C

LAND DISPOSAL OF EFFLUENT

ATTACHMENT C IS REQUIRED FOR APPLICATIONS (NEW, AMENDMENT, OR RENEWAL) FOR FACILITIES REQUESTING AUTHORIZATION FOR DISPOSAL OF TREATED WASTEWATER VIA LAND APPLICATION.

Are ; as a	you currently authorized or requesting new authorization to use land application method of disposal for treated effluent?
YES	NO \underline{X} If YES, complete this attachment. If NO, do not complete and do not submit this attachment with the technical report.
for (you 1) currently authorized in your existing permit to utilize land application disposal of your effluent AND 2) this permit application is NOT requesting changes your existing permit conditions for those operations?
YES	NO If YES, only items 1 through 11 are required.
for	you 1) currently authorized in your existing permit to utilize land application disposal of your effluent AND 2) this permit application is requesting changes your existing permit conditions for those operations?
YES	NO If YES, items 1 through 15 are required.
by e	you seeking a new authorization for the land application for disposal of effluent ither a new permit application or an amendment permit application of an existing lity not currently authorized for land disposal of effluent?
YES .	NO If YES, items 1 through 15 are required.
1.	Disposal System:
	() Surface Disposal: Evaporation Irrigation Evapotranspiration beds Subsurface soils absorption
	() Other (describe)
2.	Is the proposed/existing disposal site within the 100-year frequency flood level? YES NO
	If YES, describe how the site will be protected from inundation.
	j ga
	MAY 02 2000

Area acres	Effluent Application Gallons/Day	Describe land use of crop(s)-(alfagolf course, land	lfa or wheat	, park,	Public Access YES/NO
				<u> </u>	***************************************
			· · · · · · · · · · · · · · · · · · ·		
For non	-public access a	areas, describe ac	cess control:	3.	
······································					"
Total e	urface area of s	storage pond(s):		acres	
IOCAL S	arrace area or .	scorage pomets,		40105	
Total s	torage volume of	f storage pond(s):		million	gallons
		f storage pond(s):			
Provide		f storage pond(s): gth, width, water d			
Provide	dimensions (len				
Provide	dimensions (len				
Provide storage	dimensions (leng	gth, width, water d	epth, and fre	eeboard)	of each ef
Provide storage	dimensions (leng	gth, width, water d	epth, and fre	eeboard)	of each ef
Provide storage	dimensions (lengtholding pond.	gth, width, water d	epth, and fre	eeboard)	of each ef
Provide storage	dimensions (lengtholding pond.	gth, width, water d	epth, and fre	eeboard)	of each ef
Provide storage Describ synthet	dimensions (leng/holding pond.	gth, width, water d	pond liner	(e.g.,	of each ef
Provide storage Describ synthet Describerunon v	dimensions (lengtholding pond. e the effluent ic liner, other	gth, width, water d	pond liner	(e.g.,	of each ef



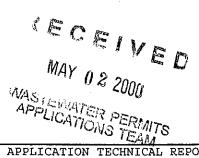
1.3

T 23

ITEM 6 IS REQUIRED FOR AMENDMENT AND RENEWAL PERMIT APPLICATIONS. (This item is not applicable for NEW permit applications.)

6. Provide the monitoring data for the previous 24 months for the parameters that are regulated in the current permit. Provide the 30-day average data if the permit includes a 30-day average limit. If the permit includes only a single grab limit, provide the maximum single grab value for the month. If monitoring is not required for any of the following parameters, indicate N/A.

DATE MO/YR	30-DAY AVG FLOW gpd	BOD(5) mg/l	TSS mg/l	TDS mg/l	NITROGEN mg/l	IRRIGATION APPLICATION RATE acre-feet/mo.
			· · · · · · · · · · · · · · · · · · ·			



abmit an annual cropping plan that includes but is not limited to includes.
A soils map depicting the location of the crops currently being grown These locations should be identified by field and crop. Type of crops and acreage irrigated for each crop.
Growing seasons for each crop.
Nutrient requirements for each crop. Additional fertilizer requirements for each crop, proposed addition
fertilizer applications for each crop, and methods of fertilizer applicat for each crop.
Supplemental watering requirements for each crop.
Salt tolerances of each crop.
Harvesting method and number of harvests per year for each crop.
scribe the application method and equipment, (e.g., row irrigation, sperigation using a center pivot sprinkler system, etc.). timate the irrigation efficiency.
sposal Requirements (complete applicable section and include destactions; include all assumptions, such as runoff, evaporations apotranspiration, etc.):
Irrigation
Area under irrigation: acres
Design application frequency: hours/day
days /wook
days/week
Land grade: average: percent (%)
Land grade: average: percent (%) maximum: percent (%)
Land grade: average: percent (%) maximum: percent (%) Design application rate: acre-feet/acre/year
Land grade: average: percent (%) maximum: percent (%)
Land grade: average: percent (%) maximum: percent (%) Design application rate: acre-feet/acre/year Design Total Nitrogen loading rate: lbs N/acre/day Provide a separate engineering report of water balance and storage volcalculations in accordance with 30 TAC Section 309.20, Subchapter C, Losposal of Sewage Effluent. Describe the method of application and prova nitrogen balance for the crop system.
Land grade: average: percent (%) maximum: percent (%) Design application rate: acre-feet/acre/year
Land grade: average: percent (%) maximum: percent (%) Design application rate: acre-feet/acre/year Design Total Nitrogen loading rate: lbs N/acre/day Provide a separate engineering report of water balance and storage volucalculations in accordance with 30 TAC Section 309.20, Subchapter C, Louisposal of Sewage Effluent. Describe the method of application and provide a nitrogen balance for the crop system.

 $\vec{\beta}$

₹.4

b.	Overland Flow			
	Area utilized for application: Slopes for application area: Design application rate: Slope length: Design BOD, loading rate: Design application frequency:			
	Describe the method of application with 30 TAC Section 317.10, Appendix			
c.	Evaporation Ponds			
		t of water	million gallons balance and storage volume	
d.	Evapotranspiration Beds			
			acres feet	
	Describe any lining to protect groundwater. Provide a separate engineering report of water balance and storage volume calculations.			
e.	Subsurface Soil Absorption			
	Type of Disposal System: Conventional Drainfield, Beds, Graveless Pipe Pressure Dosing Mound System Drip/Trickle Irrigation Other	or Trenche	s	

RECEIVED

MAY 0 2 2000

WAS LEVEATER PERMITS APPLICATIONS TEAM

Application area:	acres			
Application rate:	gal/square feet/day			
Area of trench:	square feet			
Number of beds:				
Area of bed(s):	square feet			
Area of drainfield:	square feet			
Depth to groundwater:	feet			
Dosing duration per area:	hours			
Infiltration Rate:	inches/hour			
Storage volume:	gallons			
Soil Classification:				
Include all information as required in 30 TAC Section 309.20, Subchapter C				
Land Disposal of Sewage Effluent. Describ	e the schedule of rotation for			

Indicate the exact boundaries of the disposal operation on the original USGS topographic map (7.5-minute scale) of the area.

dosing basins.

10.

11. Provide a scale drawing and indicate on the original USGS topographic map (7.5-minute scale) all land which is to be a part of the disposal operation in addition to the following: on-site buildings, waste disposal or treatment facilities, effluent storage and tail water control facilities, buffer zones and water wells within 1 mile radius of disposal site boundaries.

Identify the water uses from each water well within a half-mile radius of the disposal site boundaries. In addition, provide aspects of construction such as well logs, casing, yield, static elevation, water quality, and age for each well. Submit copies of State Water Well Reports (driller's logs, completion data), and data on depths to ground water for water supply wells including a description of how the depths to ground water were obtained. Local groundwater resources below the wastewater disposal site shall be monitored to establish preoperational baseline groundwater quality for the following: total dissolved solids, nitrate-nitrogen, chlorides, sulfates, pH, and coliform bacteria.

12. On a U.S. Department of Agriculture (USDA) Natural Resources Conservation Service Soil Survey Map, accurately locate the area to be used for land application. Include engineering properties (No. 200 Sieve, Liquid Limit, plasticity), soil name and mapping symbol, USDA textures and associated depths for each texture class, soil permeability for each texture class, and seasonal high water table.

RECEIVED

MAY 0 2 2000

WAS LEVYATER PERMITS
APPLICATIONS TEAM

- 13. Provide analyses of the soil in the land application area for pH, conductivity, sodium adsorption ratio (SAR), total nitrogen, nitrate-nitrogen, potassium, phosphorous, calcium, magnesium, sulphur, and sodium. The nutrient parameters should be analyzed on a plant available or extractable basis. All results shall be reported in mg/kg dry weight basis (parts per million). When reporting the results, include all information pertaining to fertilizer recommendations. Composite sampling techniques should be used when sampling the irrigation tract. Individual soil types, as defined by the USDA Natural Resources Conservation Service soil survey, should be sampled individually at zones of 0-6, 6-18, and 18-30 inches. Each composite sample shall represent no more than 40 acres for areas located east of Interstate Highway 35 and 80 acres for areas located west of Interstate Highway 35. Each composite sample shall consist of no less than 15 subsamples. Subsamples shall be composited by zone and according to type of crop and soil for analysis and reporting.
- 14. Do you plan to install ground water monitoring wells or lysimeters around the land application site? YES _____ NO ____ If YES, submit a map indicating the location, designation, and depth of each monitor well.
- 15. For waste disposal activities subject to 30 TAC Chapter 213, Edwards Aquifer Rules, provide a report that describes the surface geologic units present in the proposed land application site and identifies the location and extent of any significant recharge areas in the land application site.

RECEIVED

MAY 0 2 2000

WASTEVVATER PERMITS APPLICATIONS TEAM

ATTACHMENT D

TOXICITY TESTING INSTRUCTIONS

Toxicity Testing

To determine if your facility has a reasonable potential to cause or to contribute to receiving water toxicity, the TNRCC requires that the test results of laboratory aquatic toxicity tests performed on the effluent from the following wastewaters be submitted:

- 1. Process wastewater outfalls and any other continuous discharge outfalls from an industrial facility subject to EPA Categorical Standards (40 CFR 400-471).
- Process wastewater outfalls and any other continuous discharge outfalls from an industrial facility classified as an EPA Major.
- 3. Treated domestic wastewater from outfalls at flows of 1 MGD or greater.

External outfalls conducting routine toxicity testing as a requirement of the currently issued wastewater discharge permit do not need to be re-tested. Internal outfalls also do not need to be tested.

For those outfalls that meet one or more of criteria 1-3 above, and are not currently being tested, the TNRCC will review the test results to determine the need for continued toxicity testing as a permit requirement as well as the need for an effluent toxicity limit.

Test Methods

The permittee shall perform two of the following toxicity tests using effluent collected from the facility. If the discharge enters freshwater (salinity of receiving water less than 2 parts per thousand), the applicant shall perform test numbers 1 and 2 below. If the discharge enters saltwater (salinity of receiving water equal to or greater than 2 parts per thousand), the applicant shall perform test numbers 3 and 4 below. Dischargers are encouraged to contact the Water Quality Assessment Team of the Water Quality Division to obtain assistance regarding the nature of the receiving water and the appropriateness of the freshwater or marine test species.

All test organisms, procedures, and quality assurance requirements used shall be in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fourth Edition" (EPA/600/4-90/027F), or the latest revision of this document. The following tests shall be used:

- Acute 24-hour static toxicity test using <u>Daphnia pulex</u>. A minimum of five (5) replicates with eight (8) organisms per replicate shall be used for this test.
- Acute 24-hour static toxicity test using the fathead minnow (<u>Pimephales promelas</u>). A minimum of five (5) replicates with eight (8) organisms per replicate shall be used for this test.

RECEIVED

MAY 0 2 2000

WASTEVVATER PERMITS APPLICATIONS TEAM

- 3. Acute 24-hour static toxicity test using Mysidopsis bahia. A minimum of five (5) replicates with eight (8) organisms per replicate be used for this test.
- 4. Acute 24-hour static toxicity test using the Inland Silverside minnow (Menidia beryllina). A minimum of five (5) replicates with eight (8) organisms per replicate shall be used for this test.

Toxicity Test Dilution Series

Five effluent concentrations, in addition to a control (0% effluent) shall be used in the toxicity tests. These additional effluent concentrations shall be 6%, 13%, 25%, 50%, and 100%.

Sample Collection

The effluent sample shall be collected at a point following the last treatment unit. A flow-weighted 24-hour composite sample will be collected from the discharge point for use during the toxicity test. A 24-hour composite sample consists of a minimum of twelve (12) effluent portions collected at equal time intervals and combined proportional to flow or a sample continuously collected proportional to flow over a 24-hour operating day.

Dilution Water

For tests 1 and 2, dilution water used in the toxicity tests shall be moderately hard synthetic water. For tests 3 and 4, dilution water used in the toxicity tests shall be hypersaline brine or synthetic seawater.

Reporting Requirements

Facilities shall determine and report the 24-hour LC50 for each species tested. Additionally the applicant shall report the mean survival (for each species) at each effluent dilution following the 24 hour exposure. The applicant shall prepare a full report of the results according to "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fourth Edition" (EPA 600/4-90/027F), Section 12, Report Preparation. The applicant shall submit the following information as an attachment to the application:

- 1 The full report.
- 2. Table D-1 or D-2 (as appropriate), including LC50 data and mean survival (Table D-1 & D-2 forms are provided).

RECEIVED

MAY 0 2 2000

WASTEWATER PERMITS APPLICATIONS TEAM